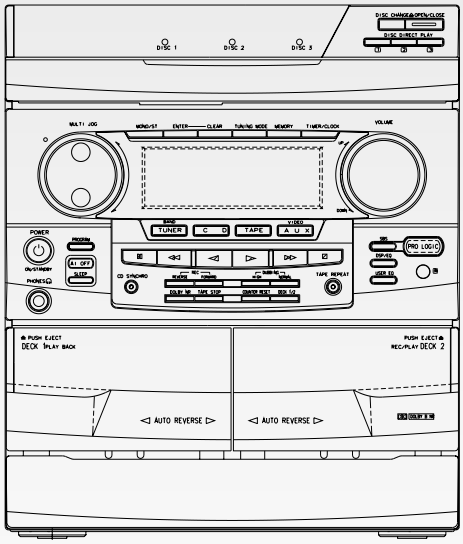
3 CD CHANGER
MINI MINI COMPONENT
MAX-632P

SERVICE Manual

3CD CHANGER MINI COMPONENT



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Printed in Korea
Code no. AH68-20140A

2. Product Specfications

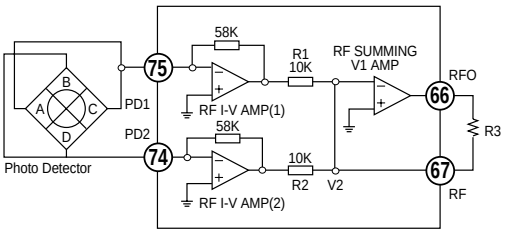
General		Power source Power consumption Dimensions (mm)	230V 50HZ (option) 300W 270(W) x 317(H) x 333(D)
Amp		Power output (Front) (Center) (Rear) Total harmonic distortion Frequency range Signal to noise ratio Channel separation Input sensitivity	50W / Ch(6Ω) (THD 1%) 20W(8Ω) (THD 1%) 10W / Ch(16Ω) (THD 1%) 0.08% 20Hz ~ 20kHz 75 dB 50 dB 400mV
Tuner	FM	Frequency range Usable sensitivity Signal to noise ratio IF rejection ratio Total harmonic distoration Separation (Stereo)	87.5 ~ 108MHz 8µV 62 dB 60 dB 0.45% 35 dB
	MW (AM)	Frequency range Usable sensitivity Signal to noise ratio IF rejection ratio Total harmonic distortion	522 ~ 1611KHz 600µV 40 dB 30 dB 2%
	LW (option)	Frequency range Usable sensitivity Signal to noise ratio	146 ~ 290KHz 1000µV 35 dB
Cassette		Frequency range WOW FLUTTER Erasing effect Signal to noise ratio Total harmonic distortion	125Hz ~ 12.5KHz 0.15% 60 dB 40 dB 2.5%
Compact Disc		Frequency response Signal to noise ratio Channel separation Total harmonic distortion	20Hz ~ 20KHz(±1dB) 90 dB(1kHz 0dB) 75 dB(1kHz 0dB) 0.08%(1kHz 0dB)

Specifications are subject to change without notice.

5. Special Circuit Descriptions

5-1 CD

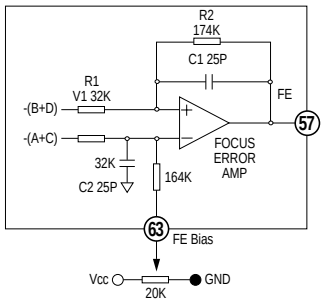
5-1-1 RF Amp (KA9220) : WIC01



RF I-V Amp(I-1) and RF I-V Amp (I-2) are converted to voltage (via internal resistance of 58kΩ) from the current of PD1 (A+C) and PD2 (B+D):
These voltages are added by the RF summing amplifier.
The signal (A+B+C+D) is applied to RFO (No.2 terminal)
RF output voltage is calculated as follows :

$$V_{RF} = -R3 \times (iPD1 + iPD2)$$
$$= -R3 \times (V_1/R_1 + V_2/R_2)$$
$$= -R3 \times \left(\frac{V1}{10K} + \frac{V2}{10K}\right)$$
$$= \frac{R3}{10K} \times (V_1 + V_2)$$

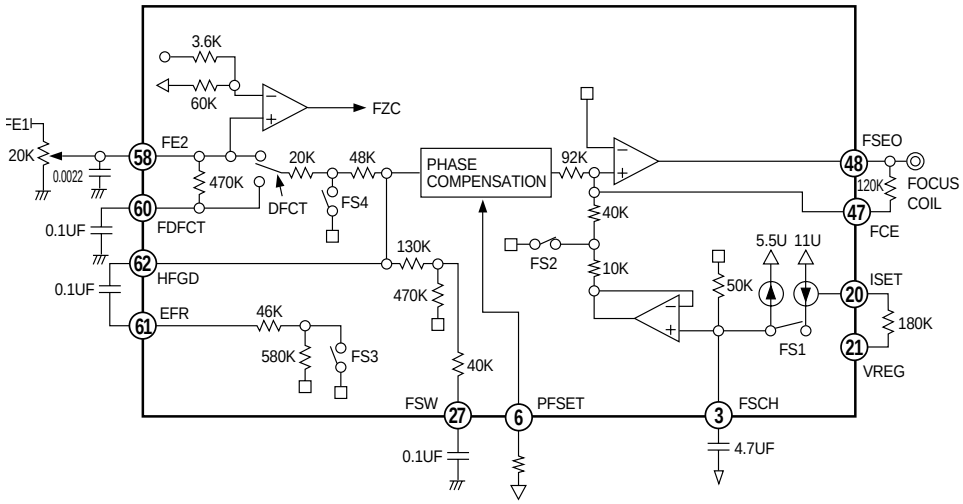
5-1-2 Focus Error Amp (KA9220) : WIC01



FOCUS ERROR Amp AMPLIFIES the difference between RF I-V Amp (1) output (A+C) and RF I-V Amp (2) output (B+D) These two signals are supplied to (-) and (+) input terminals of the FOCUS ERROR Amp. The FOCUS ERROR signal resulting from this difference voltage is applied to FE (Terminal No. 57).
The FE output voltage of this low frequency component varies according to {(A+C) - (B+D)}.
VFE is calculated as follows:
VFE=(R2/R1) X (V2-V1) = 5.4(V2-V1)
This FOCUS ERROR voltage is sent to FOCUS SERVO.

5-1-3 Focus Servo System (KA9220) : WIC01

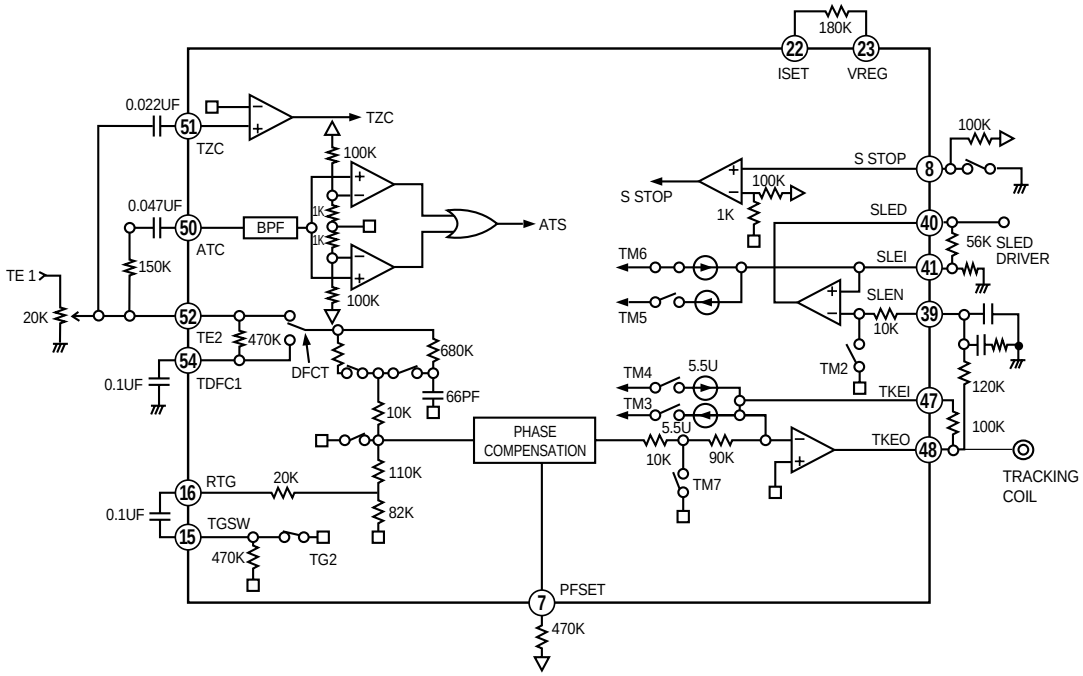
When FS3 is ON, high-frequency gain decreases (time constant is set by pin17, pin19, and capacitor connected to internal resistance). The capacitor between pin18 and GND sets the time constant to pass low freqencies in PLAY mode.



The maximum frequency of focus phase compensation is inversely proportional to the resistance connected to pin 7. Focus search peak is about 1.1 Vp-p, and is inversely proportional to the resistance connected to pins 22,23 (if this resistance changes, the peak of track jump and sled kick change). The inversion input of FZC comparator is set to 5.7% of the difference between Vcc and VC (pin69) {(5.7% x (Vcc-Vc)}.
Note : If the resistance connected to pin 7 changes, the phase compensation peak of focus,tracking,sled servos change. At the same time, 'op-amp' dynamic range and offset voltage also change.

5-1-4 Tracking Sled Servo System (KA9220) : WIC01

The capacitor between pins 15 and 16 attenuates high frequencies when TG2 is off. The maximum frequency of tracking phase compensation is inversely proportional to the resistance connected to pin 7 (about 1.2kHz at 470k). The tracking jump (FWD and REV) is determined when TM3 and TM4 are ON, and the peak voltage induced from tracking coil is decided by both TM3 and TM4 current values and feedback resistance of pin 47.
Tracking jump max voltage = TM3 (TM4) current x feedback reisistance.



FWD or REV sled kick occurs when TM5 or TM6 is ON, and the peak voltage added to sled motor is decided by TM5 or TM6 current and the feedbadk resistance of pin 41.
Sled jump max voltage= TM5 (TM6) current x feedback resistance
Each SW current is decided by the resistance connected to pin 22 and 23.
When the resistance is about 150Ω,

TM3 or TM4 = 11μA,
TM5 or TM6 = 22μA,

This current is inversely proportional to the resistor, variable within a range of 5 to 40μA for TM3.
STOP is the ON/OFF detection signal for the limit SW (or the sled motor's innermost cirumference).

3. Disassembly and Reassembly

3-1 Cabinet-Top

1. Remove 9 screws holding the Cabinet-Top.
2. Lift the back of the Cabinet-Top and slide it to the rear to remove.

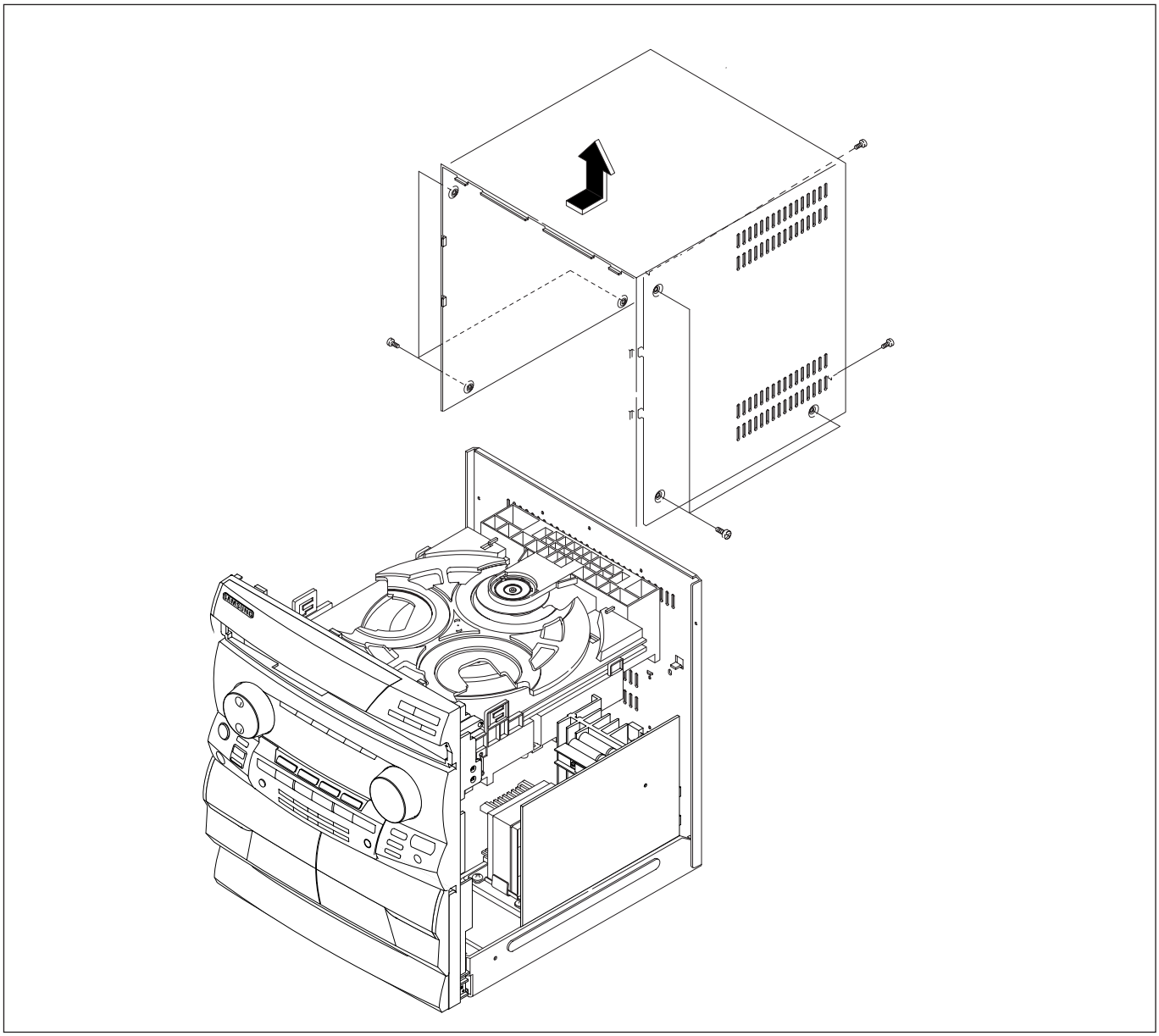


Figure 3-1

3-2 CD-Mecha, Door-CD

1. After power is connected :
   - Turn power on
   - Open the tray using the open/close key
2. After power is not connected :
   - Turn the Gear clockwise using the hand as shown in figure 3-2-1.
   - Pull the Tray in the direction of arrow ②.
3. Remove 4 screws ④,⑤ and lift the CD-Mecha.

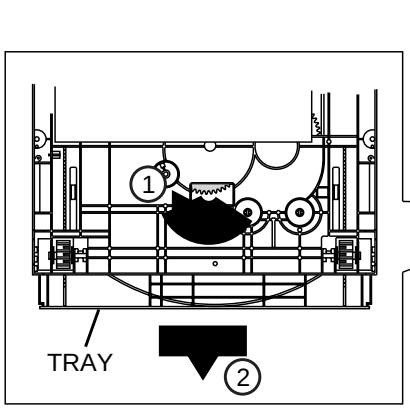


Figure 3-2-1

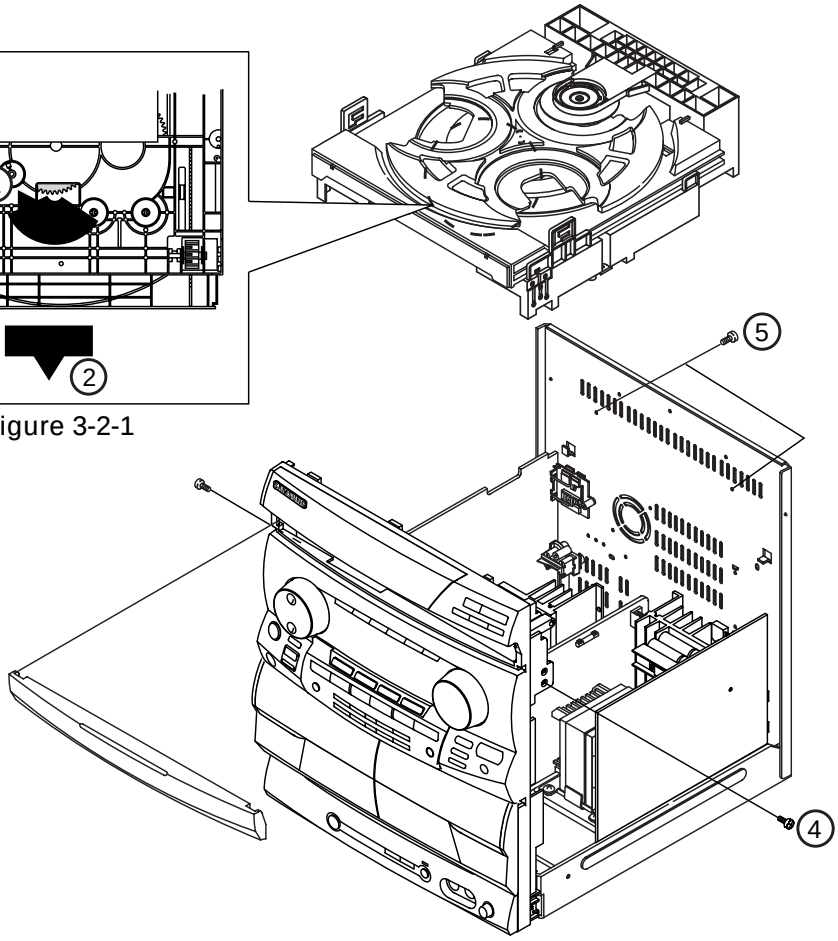


Figure 3-2

3-3 Cabinet-Rear and Main PCB

1. Remove 17 screws ⑤ and then lift the Cabinet-Rear ⑥ and slide it to rear to remove (see arrow).
2. Remove the Main-PCB ⑦.

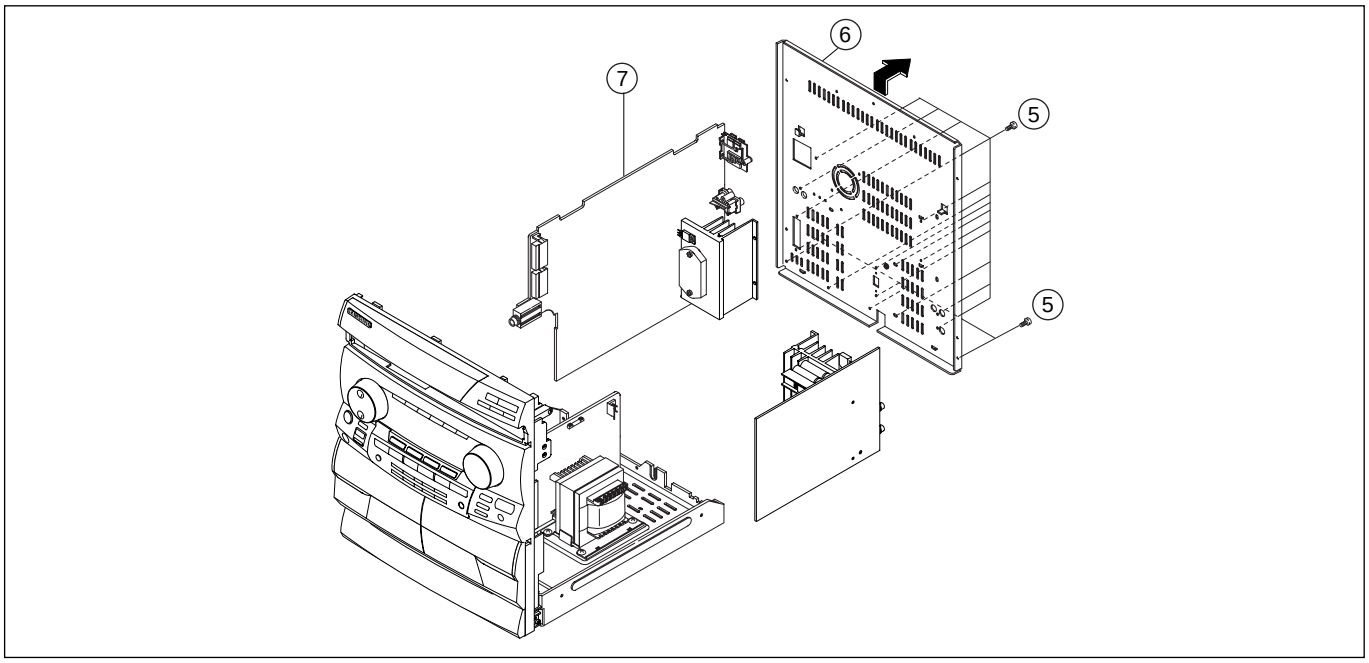


Figure 3-3

3-4 Cabinet-Front and Cabinet-Bottom

1. Remove 5 screws ⑧.
2. Remove the Cabinet-Rear by pushing the "A" and "B" as shown.

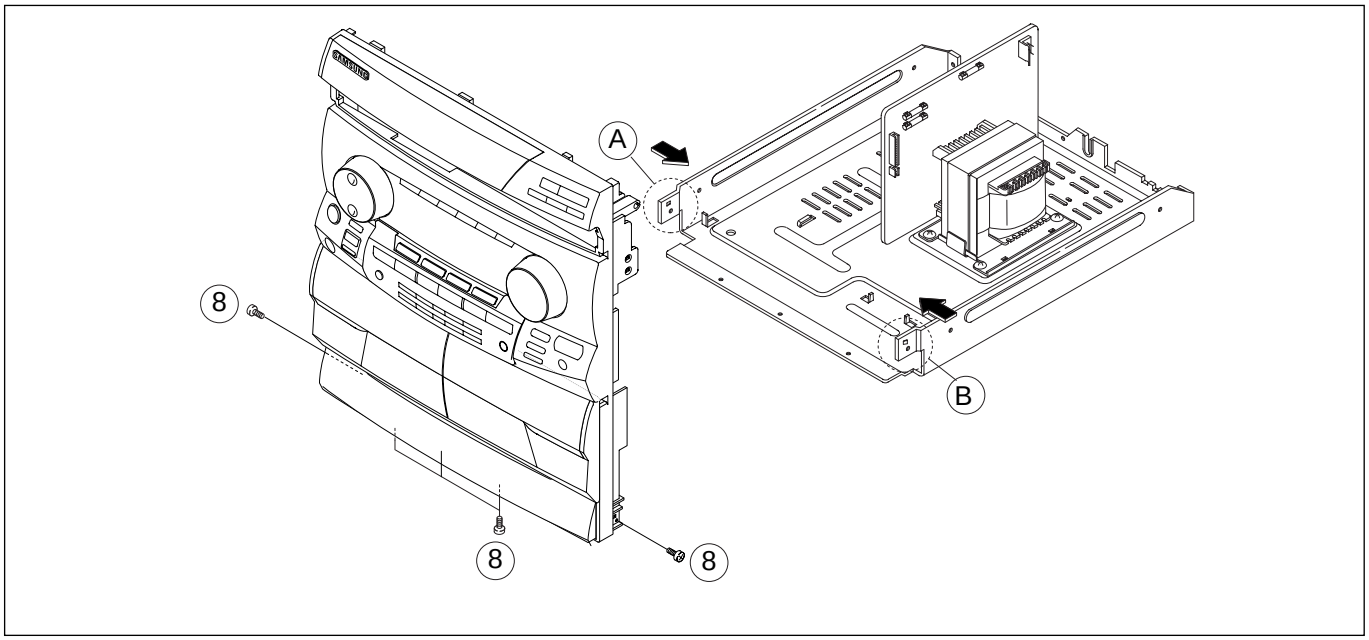


Figure 3-4

3-5 CD Mecha

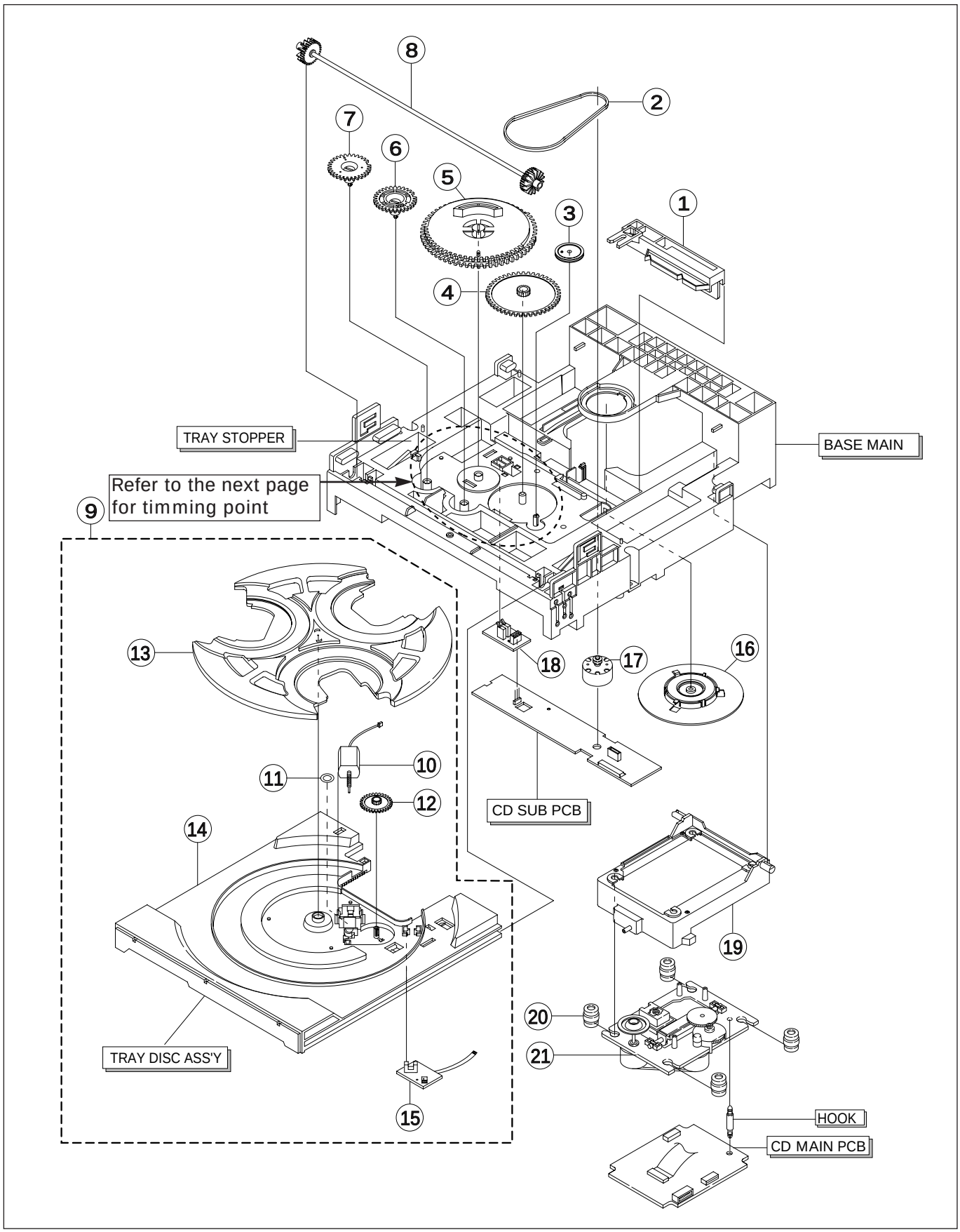


Figure 3-5

3-5 CD Mecha Continued

*When removing, take extreme care not to damage the hook.
1. Open the Tray Disc Ass'y by turning the Gear-Load(⑤) in the direction of open,then remove the Wire-Tray(㉕).
2. Remove two Tray-Stopper and tray.

3-5-1 Tray Disassembly

1. Remove the Tray-Roulette(⑬) from the Tray-Disc Ass'y(⑭) by releasing the hook.
2. Remove the PCB-Sensor Ass'y(⑮) from the tray by releasing the hook.
3. Remove the Worm-Motor Ass'y(⑩)from the Tray-Disc Ass'y(⑭).
4. Remove the Cushion-Motor(⑪) from the Tray.
5. Remove the Gear-Roulette(⑫) from the Tray-Disc Ass'y(⑭) by releasing the hook.

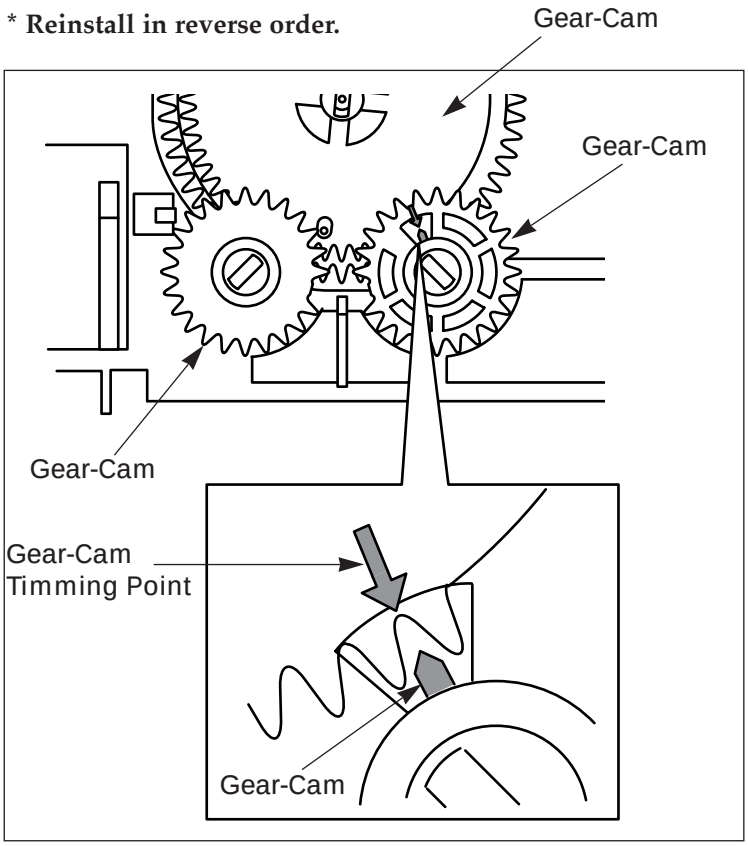
3-5-2 Main Disassembly

1. Remove the Table-Chuck Ass'y(⑯) from the Base-Main by turning it.
2. Push the Slider-Cam(①)towards right, then lift it up to remove.
3. Remove the Gear-Tray(⑥) from the Base-Main by releasing the fixed hook.
4. Remove the Gear-Converter(⑦)from the Base-Main by releasing the fixed hook.
5. Remove the Gear-Cam(⑤) from the Base-Main by releasing the fixed hook.
6. Remove the Belt(②) from the Pulley-Motor Ass'y(⑰) & the Gear-Pulley(③).
7. Remove the Gear-Pulley(③) from the Base-Main by releasing the fixed hook.
8. Remove the Gear-Load(④).
9. Remove the Gear-Synchro(⑧).
10. Desolder two soldering points of the CD SUB PCB, then remove it from Base-Main by releasing the hook.
11. Remove the Pulley-Motor Ass'y(⑰) by releasing the hook.
12. Remove the PCB-SW Ass'y(⑱) by releasing the hook.

3-5-3 CD Main PCB Disassembly

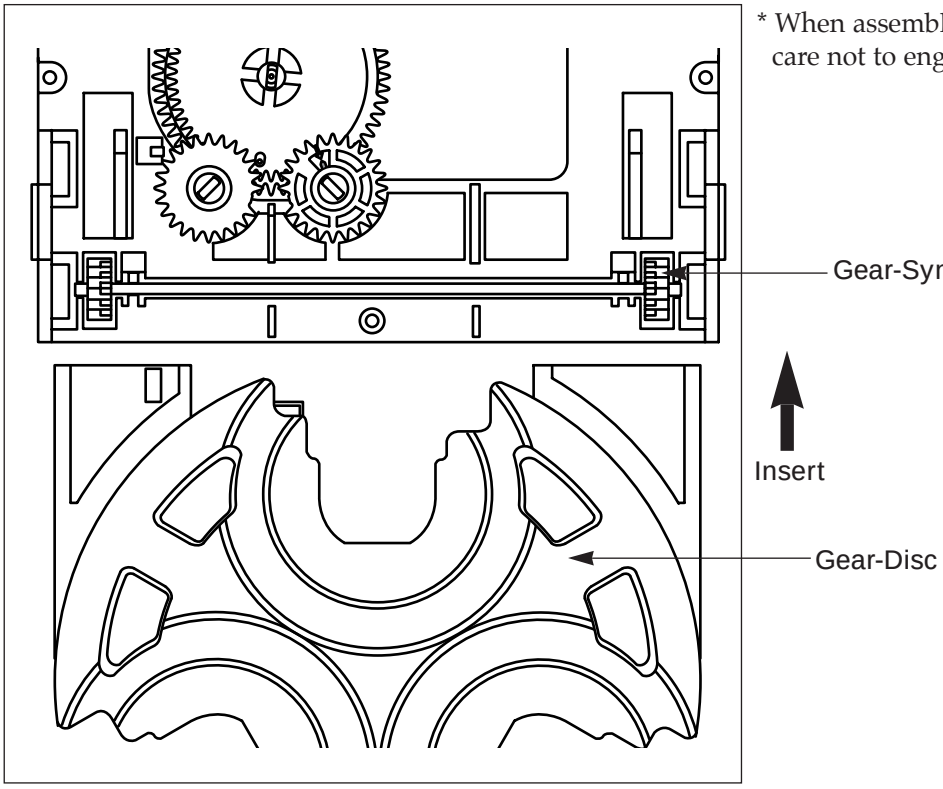
1. Remove the Lever-Lifter(⑲) from the Base-Main by releasing two hooks.
2. Remove four Rubber-CD(⑳) from the Lever-Lifter and then remove the Deck-CD(㉑).
3. Remove the Hook.
4. Remove the CD MAIN PCB with the soldering iron.

*** Reinstall in reverse order.**



* Align the Gear-Cam with the Gear-Tray as shown ing Figure 3-6, then mount the Tray-Disc.

Figure 3-6



* When assembling the Tray-Disc,take extreme care not to engage with Gear-Synchro.

Figure 3-7

3-6 CD Deck

1. Remove the Shaft ①.
2. Lift the P/U ②.
   Note : Take extreme care not to touch the surface of lens.
3. Lift the Center-ring ③.
4. Remove the Spring-T/Table ④.
5. Remove the Turn-Table (M) ⑤.
6. Remove 2 screws ⑥ and then remove the Spindle-Motor ⑦.
7. Remove the Cover-Gear ⑧ by pushing the hook.
8. Remove the Gear (c) ⑨ by pushing the hook.
9. Lift the Gear(b) ⑩.
10. Remove the Gear(a) ⑪.
11. Remove 2 screws ⑫ and the then remove the Feed-Motor ⑬.
12. Remove the Chassis-Deck (M) ⑭.

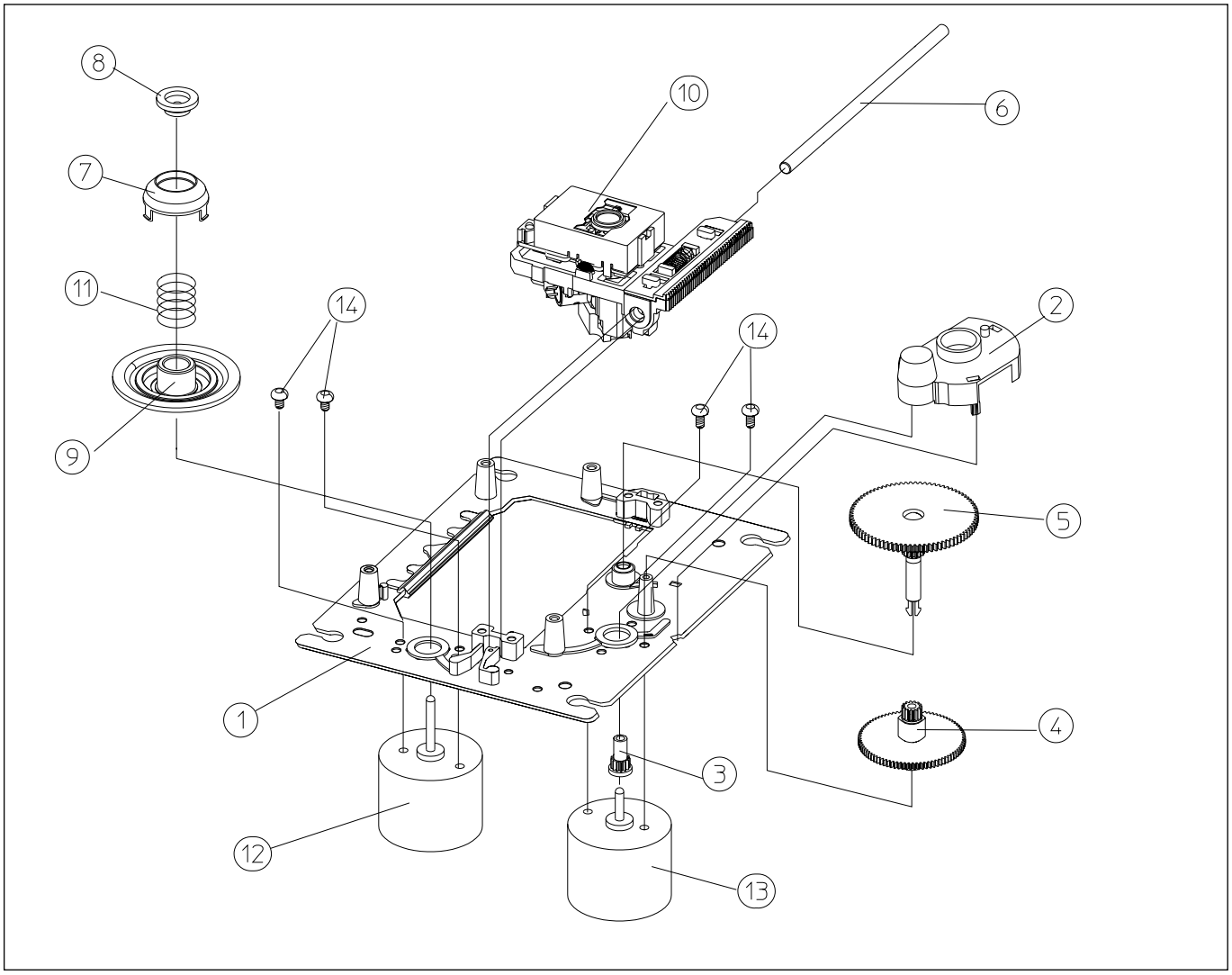
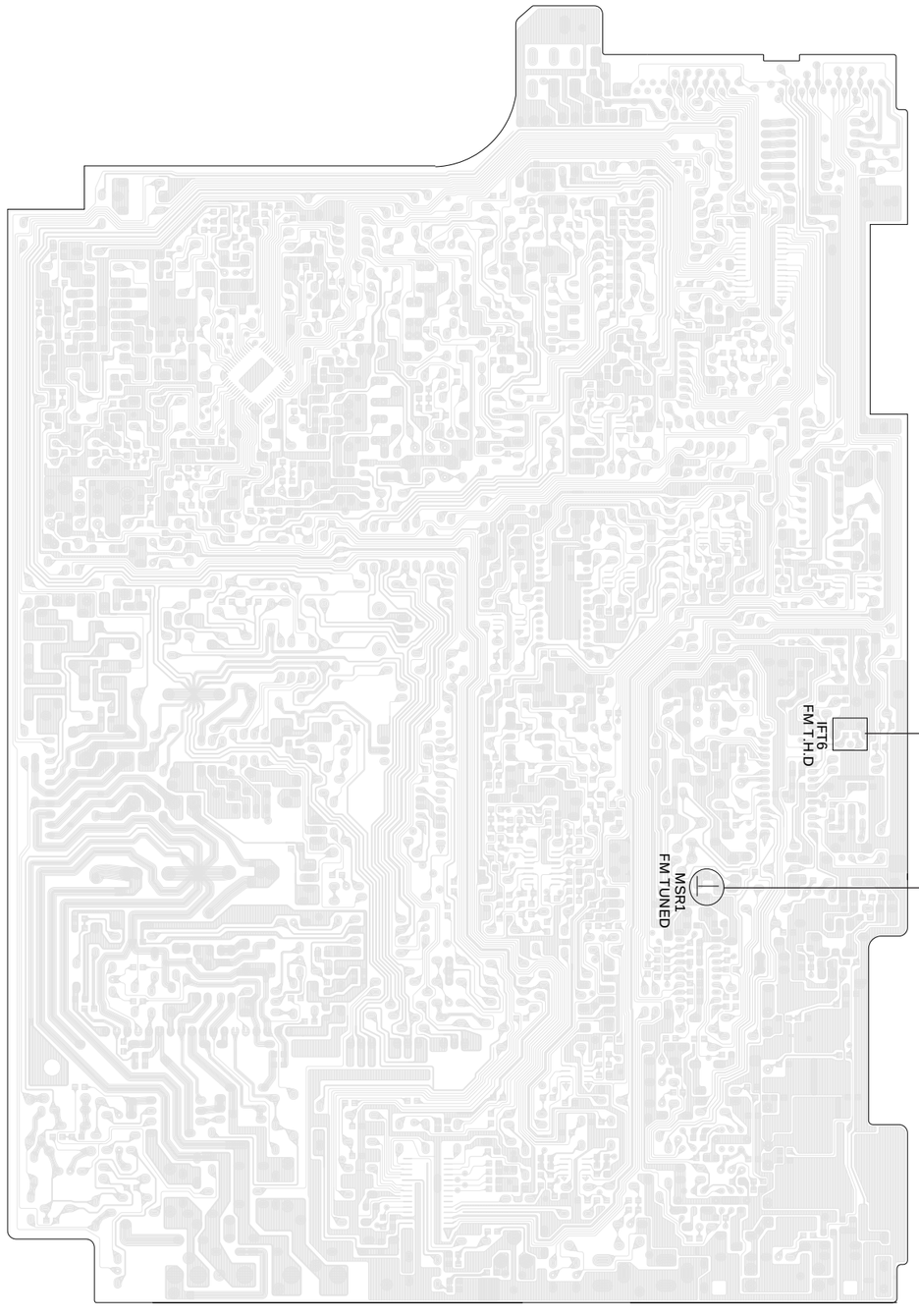


Figure 3-8

4-1 Tuner



FM THD Adjustment	
SSG FREQ.	98 MHz
Adjustment point (IFT6)	FM DETECTOR COIL
Minumum Distortion (Figure 4-1)	

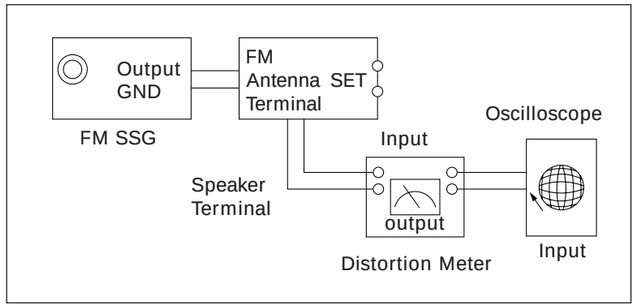


Figure4-1 IF CENTER and THD Adjustment

FM Search Level Adjustment	
SSG FREQ.	98 MHz
Adjustment point (MSR1)	SEMI-VR(5KB)
“TUNED” is shown on FLT (Figure 4-2)	

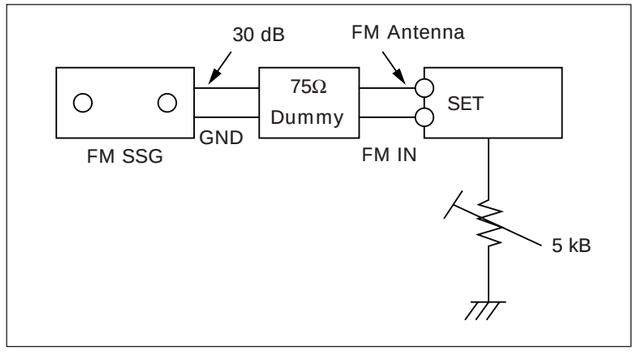


Figure4-2 FM Auto Search Level Adjustment

4-2 Cassette Deck

4-2-1 To Adjust Tape Speed

Notes

1) Measuring tape: i) MTT-111 (or equivalent)
(Tapes recorded with 3kHz)
ii) MTT-5512 (or equivalent)
2) Connect the cassette deck to the frequency counter as in figure 4-3.

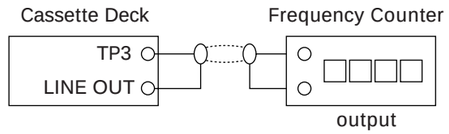


Figure 4-3

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	NOR SPEED Control	OUT (connected to the frequency counter)	1) 1-Deck:MTT-111 2) Press PLAY SW button 3) 2-Deck:Same as below	Turn DSR5 to left and right	3KHz ±1%	
2	HI SPEED Control	Same as above	1) 1-Deck:MTT-111 2) 2-Deck:MTT-5512 3) Press Hi Speed dubbing SW button	Fixed	5700 ~ 6300KHZ	Check

4-2-2 To Adjust Replay Head

Notes

1) Before the actual adjustment, clean the replay/recording head.
2) Measuring tape :
i) MTT-114NA(or equivalent 12.5kHz AZIMUTH control)
ii) MTT-150(or equivalent : Dolby level 200nwb/m)
3) Dolby NR SW OFF
4) The cassette deck is connections as shown in figure 4-5.

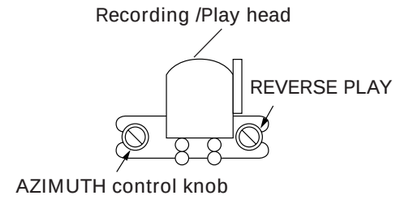


Figure 4-4

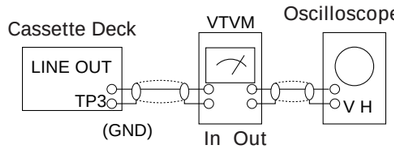


Figure 4-5

① Adjust 1-Deck Replay Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	TP3 OUT (VTVM is connected to the scope)	After putting MTT-114NA into Deck 1 1) Press FWD PLAY button. 2) Press REV PLAY button.	1) Turn the control knob to as shown in Figure4-4. 2) Adjust the right control screw to playback REV. Mode	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.
2	PlayBack out Level	Same as above	PLAY MTT-150 on Deck 1.	L-CH:Turn DSR3L to the right and left R-CH:Fixed	100mV ±0.5dB	See the diagram for adjustment locations.

② Adjust 2-Deck Replay Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	TP3 OUT (VTVM is connected to the scope)	After putting MTT-114NA into Deck 2 1)Press FWD PLAY button. 2)Press REV PLAY button.	1) Turn the control knob to as shown in Figure4-4. 2)Adjust the right control screw to playback REV. Mode	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.
2	PlayBack out Level	Same as above	PLAY MTT-150 on Deck 2.	L-CH:Turn DSR4L to the right and left R-CH:Fixed	100mV ±0.5dB	See the diagram for adjustment locations.

4-2-3 To Adjust PlayBack

NOTES

1) Connect the measuring instruments as shown in Figure 4-6.
2) Set the DOLBY NR Switch off.
3) Measuring tape:
   MTT-5512 (or equivalent: normal recording)
4) The input signals supply 400Hz 400mV into AUX IN of AMP (AUDIO OSC.)

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	Normal electric current for recording	Connect to TP2 as in Figure4-6 and read VTVM	Insert MTT-5512 into Deck2, then press REC button.	L-CH : DSR2L to the right and left. R-CH : Fixed	VTVM 400mV ±5%	See diagram for adjustment locations
2	BIAS OSC. Frequency	Connect the frequency counter to TP	Insert MTT-5512 into Deck2, then press REC button.	Turn BIAS oscillator frequency coil (LL3) to the right and left.	105KHz ±5%	See diagram for adjustment locations
3	BIAS Electric current	Connect to TP1 as in Figure 4-6 and read the VTVM	Insert MTT-5512 into Deck2, then press REC button.	L-CH: DSR1L and R-CH: DSR1R to the right and left	VTVM (7V ±5%)	See diagram for adjustment locations

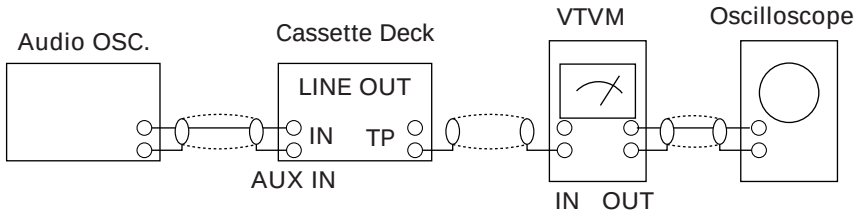
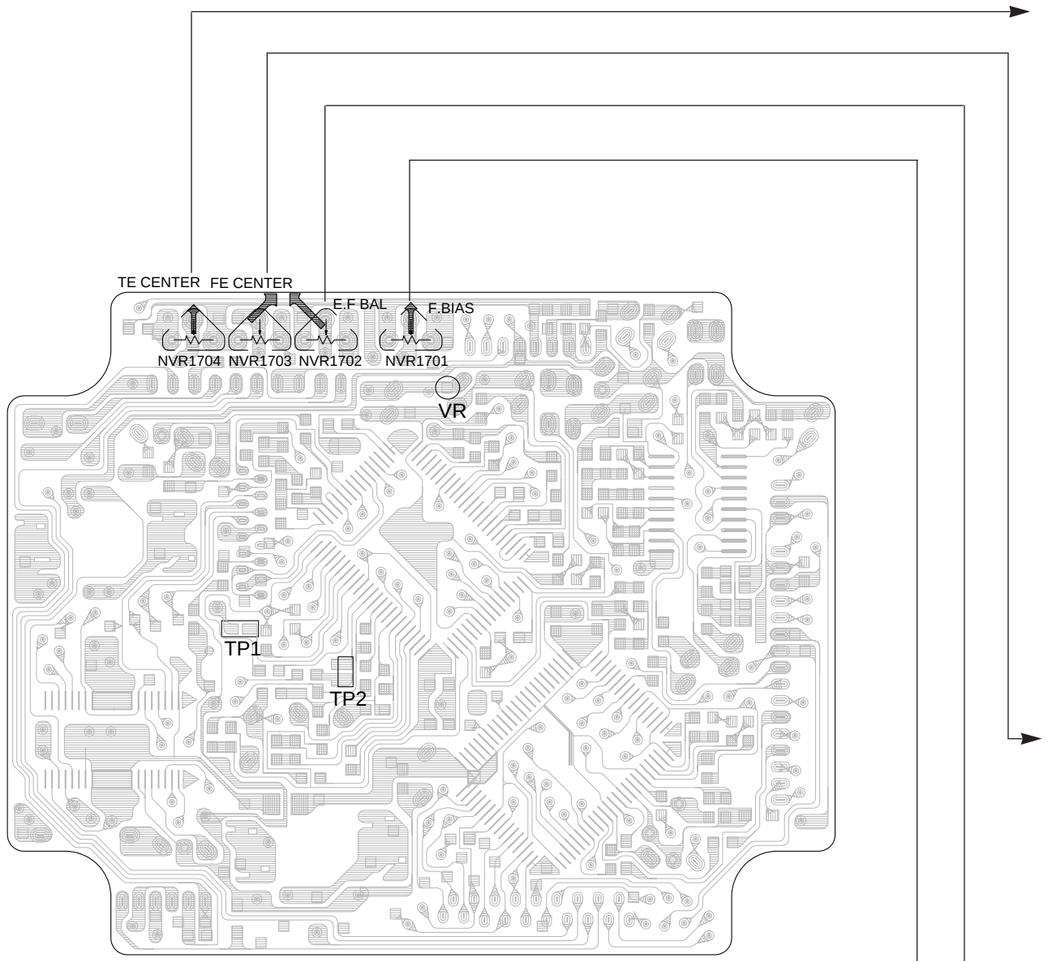


Figure 4-6

4-3 CD



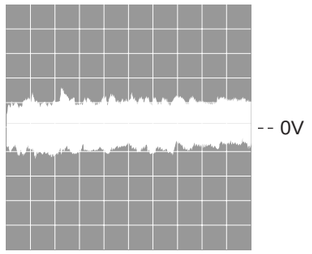
4-3-1 To Adjust FOCUS BIAS (STOP mode)

1. Set Volt/Div of the oscilloscope to DC 100mV.
2. Ground the scope input and set the waveform to 0v, DC range.
3. Connect the GND terminal of the oscilloscope to Vref, and (+) terminal to center of AP1.
4. Set NVR1704 to 0mV.

4-3-2 To Adjust Tracking Gain (PLAY mode)

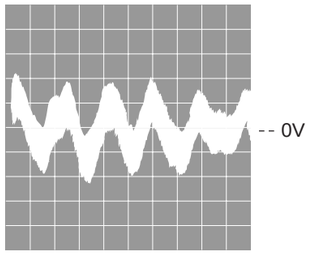
1. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to TP2.
2. Load and play the disc.
3. While the disc is running adjust the gain with NVR1701 as shown below.

Normal Frequency



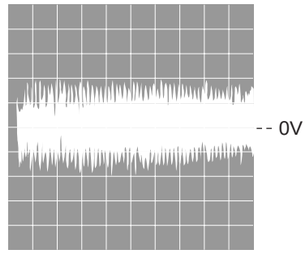
VOLT/DIV : 0.2V
TIME/DIV : 2mS

Low Frequency



VOLT/DIV : 0.2V
TIME/DIV : 2mS

High Frequency

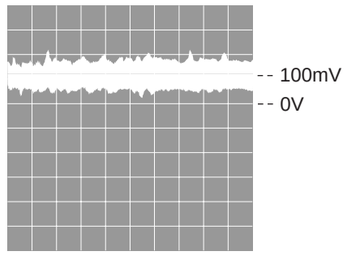


VOLT/DIV : 0.2V
TIME/DIV : 2mS

4-3-3 To Adjust Focus Gain (PLAY mode)

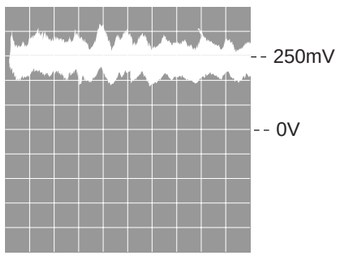
1. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to TP1.
2. Load and play the disc.
3. While the disc is running adjust the gain with NVR1702 as shown in the following figure.

Normal Frequency



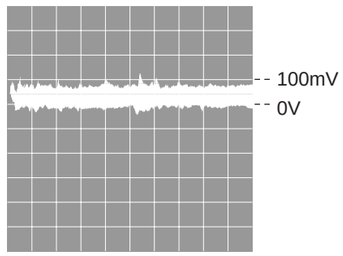
VOLT/DIV : 0.1V
TIME/DIV : 2mS

Low Frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

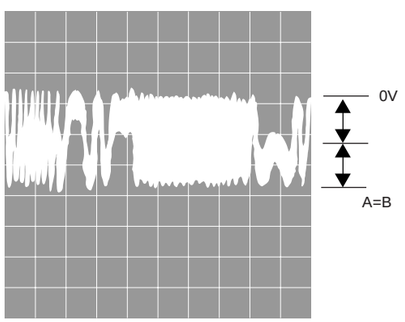
High Frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

4-3-4 To Adjust E/F Balance (PLAY mode)

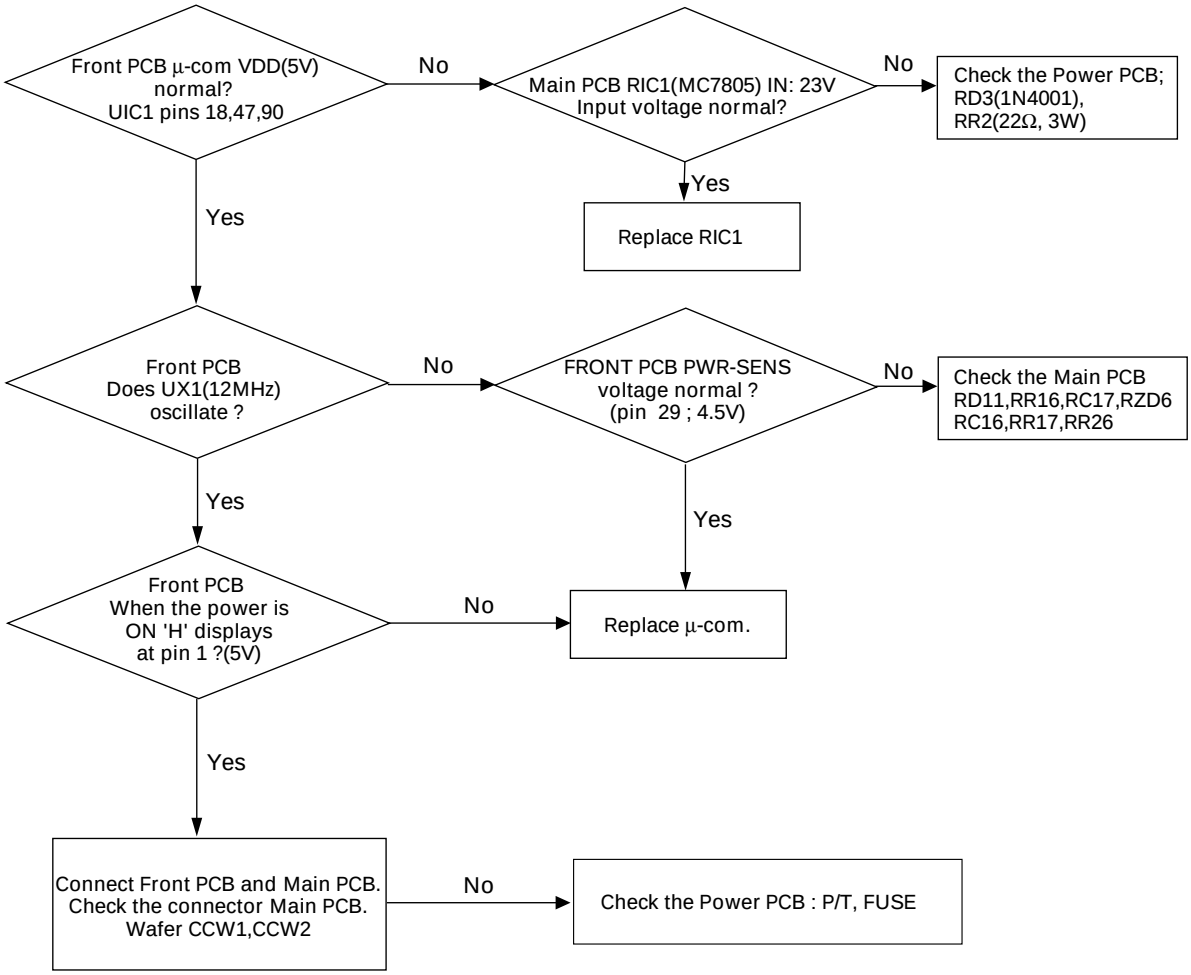
1. Set Time/Div of the oscilloscope to 2mS.
2. Set Volt/Div of the oscilloscope to 0.5V.
3. Ground the scope input and set to DC, and then set the DC range.
4. Connect the ground terminal of the oscilloscope to Vref and (+)terminal to TP2.
5. Load and play the disc.
6. Turn NVR1701 counterclockwise to the minimum value.
7. Raise NVR1703 and adjust the waveform so that its middle comes to ground of the oscilloscope. (Or, until the upper half of waveform becomes symmetrical to the bottom half,A=B)
8. Adjust NVR1701 (arrow) for normal sound.



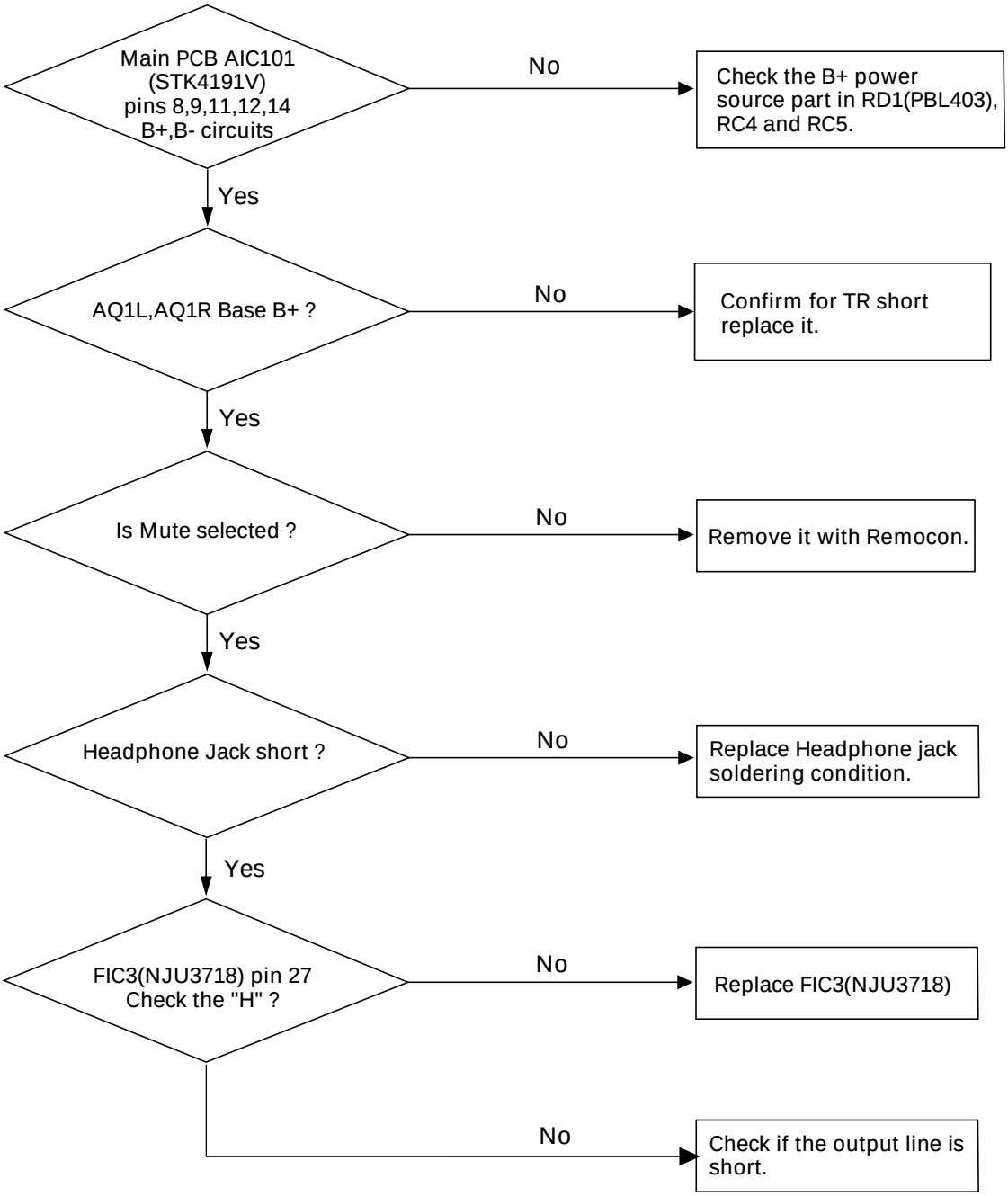
6. Troubleshooting

6-1 Amplifier

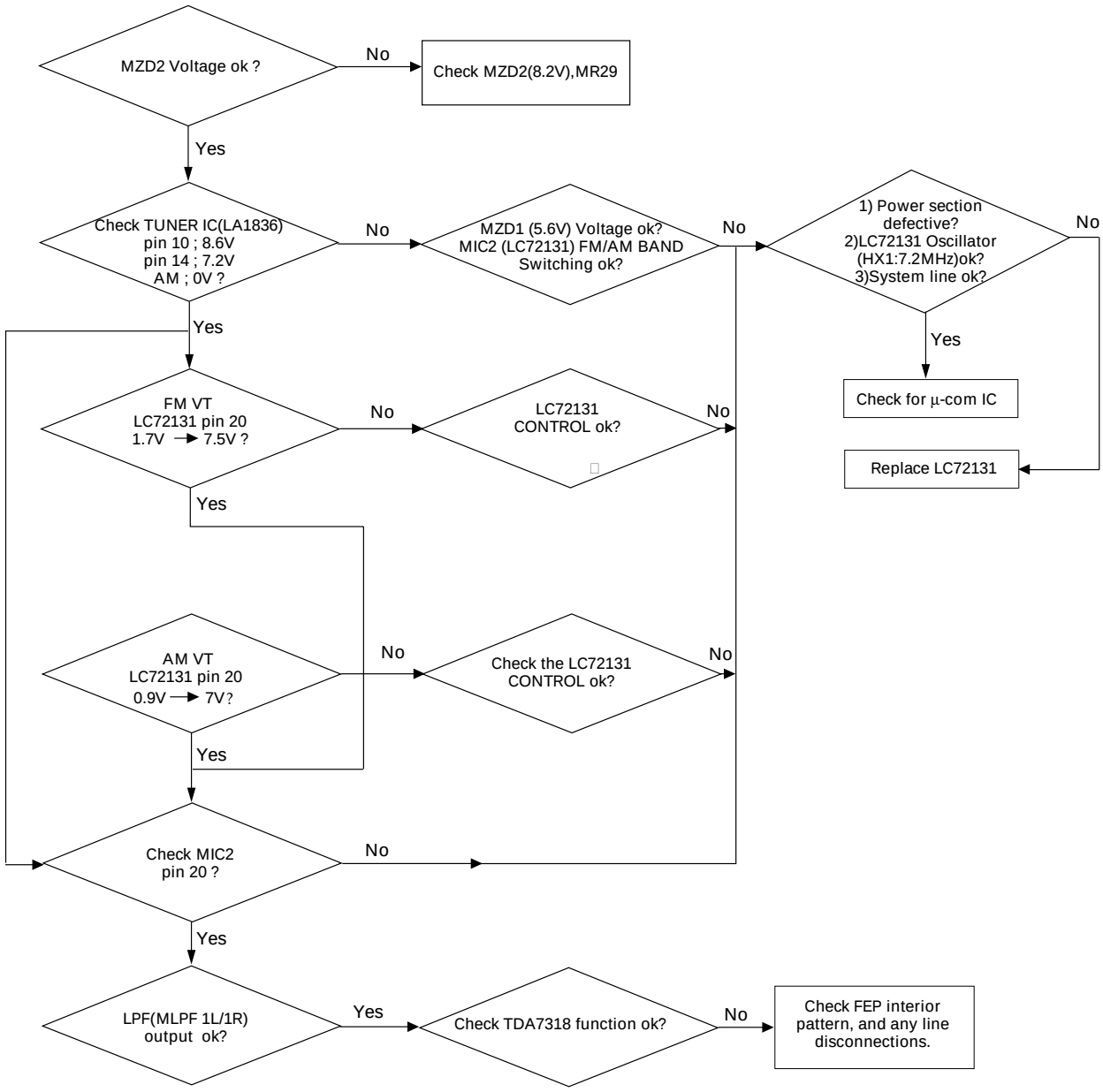
6-1-1 Power Malfunction


Front PCB μ-com VDD(5V) normal? UIC1 pins 18,47,90
No
Main PCB RIC1(MC7805) IN: 23V Input voltage normal?
No
Check the Power PCB; RD3(1N4001), RR2(22Ω, 3W)
Yes
Replace RIC1
Yes
Front PCB Does UX1(12MHz) oscillate ?
No
FRONT PCB PWR-SENS voltage normal ? (pin 29 ; 4.5V)
No
Check the Main PCB RD11,RR16,RC17,RZD6 RC16,RR17,RR26
Yes
Yes
Front PCB When the power is ON 'H' displays at pin 1 ?(5V)
No
Replace μ-com.
Yes
Connect Front PCB and Main PCB. Check the connector Main PCB. Wafer CCW1,CCW2
No
Check the Power PCB : P/T, FUSE

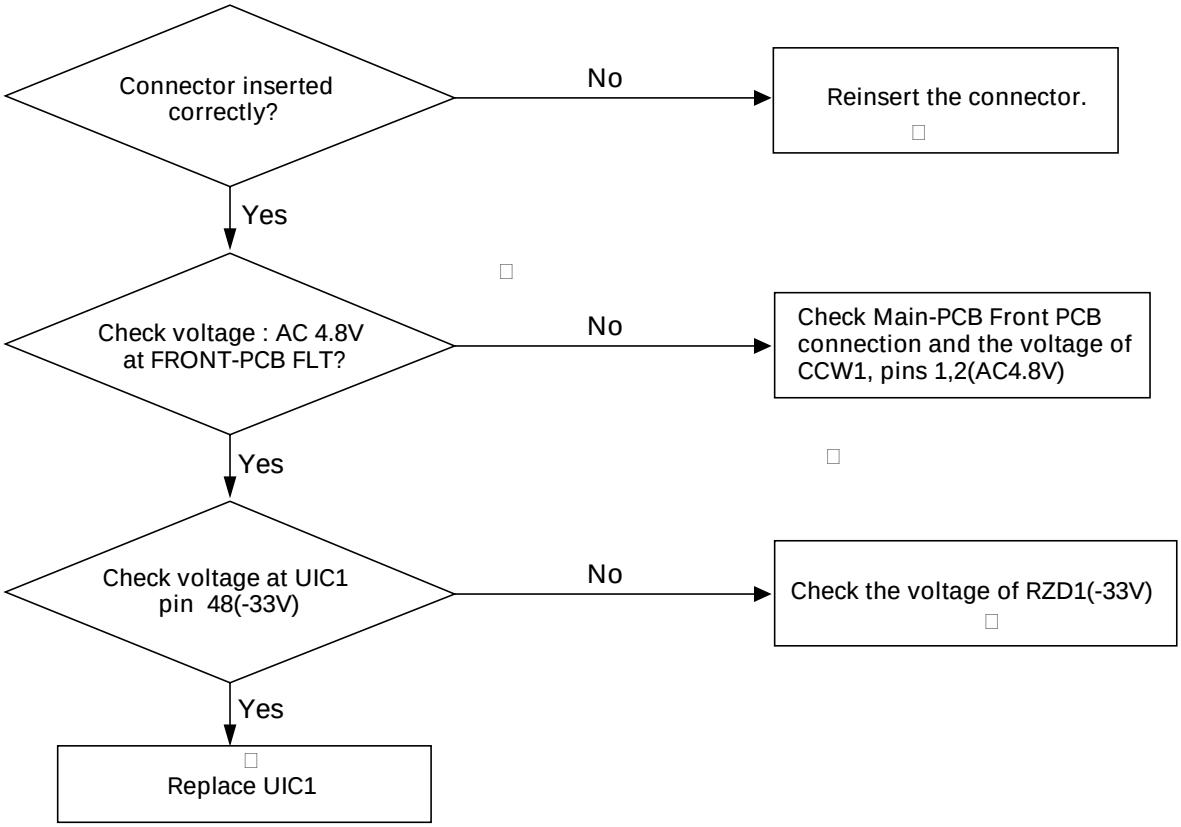
6-1-2 No Output



6-1-3 Tuner Malfunction(FM/AM)



6-1-4 V.F.D Malfunction

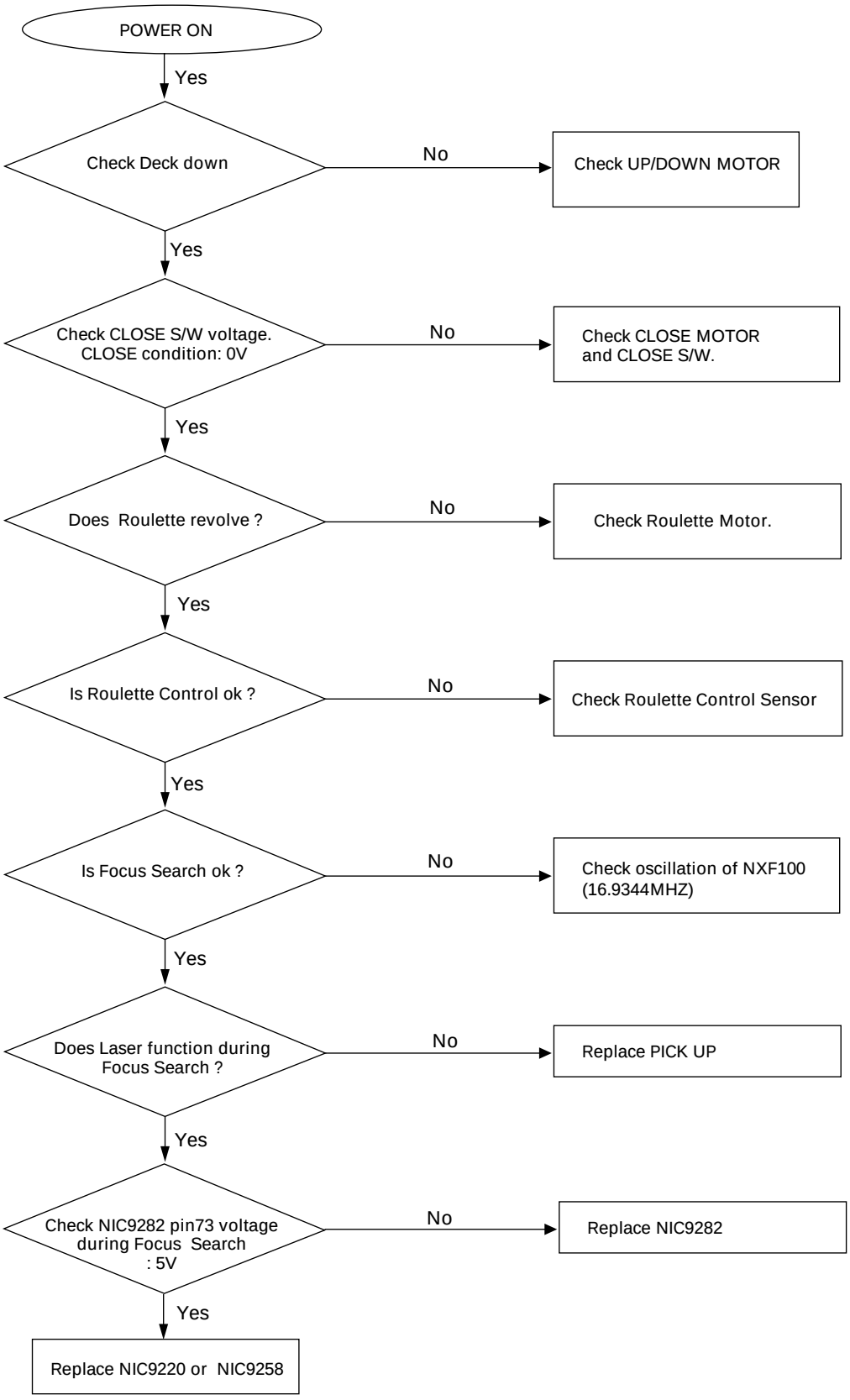


6-2 Cassette Deck

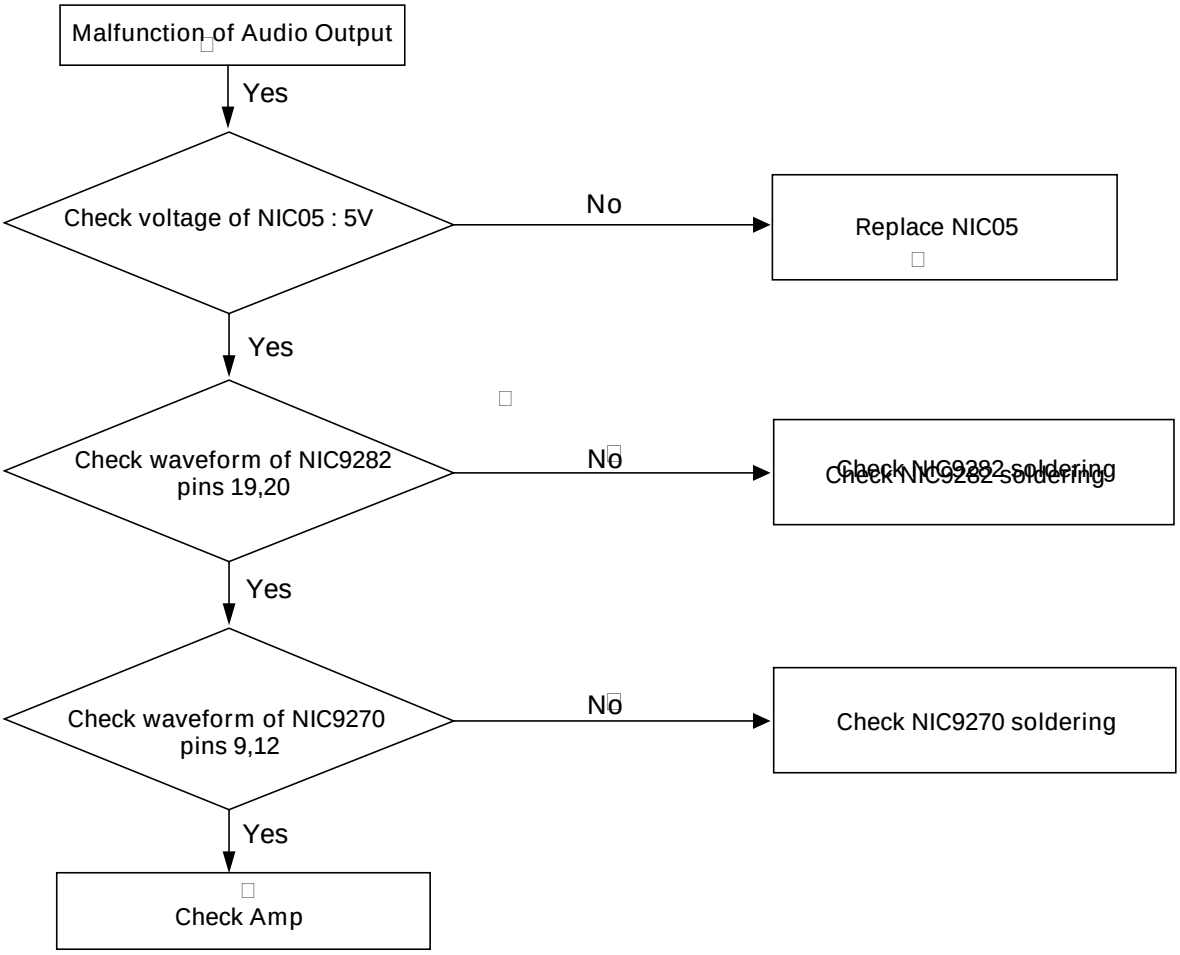
<table>
<tr><th>Block</th><th>Main Function</th><th>Check Point</th></tr>
<tr><td rowspan="2">TAPE IC JIC1
(BA3442AKS)</td><td>Convert of P/B & R/P SIGNAL
& DECK OUTPUT OF IC</td><td>Check for voltage at pin32
1 P/B Deck : L
2 P/B DECK : H
Check for pin 24 of FIC3 when deck operate</td></tr>
<tr><td>AMPS</td><td>Check for voltage at pin 28
When between song : High(Normal)
When playing song : Low(Normal)</td></tr>
<tr><td rowspan="2">DOLBY NR AMP
DIC1 (KA2271)</td><td>Convert P/B & Source Signal</td><td>Check for voltage at pin 4
R/P mode : High
R/P mode : Low
Dubbing mode : High
When in operative FIC3 pin26 check
<table><tr><th>Mode</th><th>FIC3 pin12</th></tr><tr><td>P/B</td><td>H</td></tr><tr><td>R/P</td><td>L</td></tr><tr><td>DUBBING</td><td>H</td></tr></table></td></tr>
<tr><td>Convert DOLBY NR ON/OFF</td><td>DIC1 pin 13 check
<table><tr><th>Mode</th><th>FIC3 pin12</th></tr><tr><td>OFF</td><td>H</td></tr><tr><td>ON</td><td>L</td></tr></table></td></tr>
<tr><td rowspan="2">BIAS OSC</td><td>Oscillate RECORD BIAS (105KHz)</td><td>TP2 check
Osc Frequency : 105KHz
When inoperative : LQ4,LQ5 check</td></tr>
<tr><td>Oscillate RECORD BIAS (105KHz)</td><td>DQ1,1R,Gate check
<table><tr><th>Mode</th><th>DQ1L/1R</th></tr><tr><td>REC</td><td>-10V</td></tr><tr><td>PLAY</td><td>1.4V</td></tr></table></td></tr>
<tr><td>µ-com UIC1</td><td>Control DECK MECHA
Control VF DISPLAY
Control MUTE circuit
Control each circuit</td><td>Check for RESET
When power is turned ON</td></tr>
<tr><td>VF DISPLAY</td><td>Drive VF DISPLAY</td><td>Check VF DISPLAY</td></tr>
</table>

6-3 CD

6-3-1 Revolution Malfunction



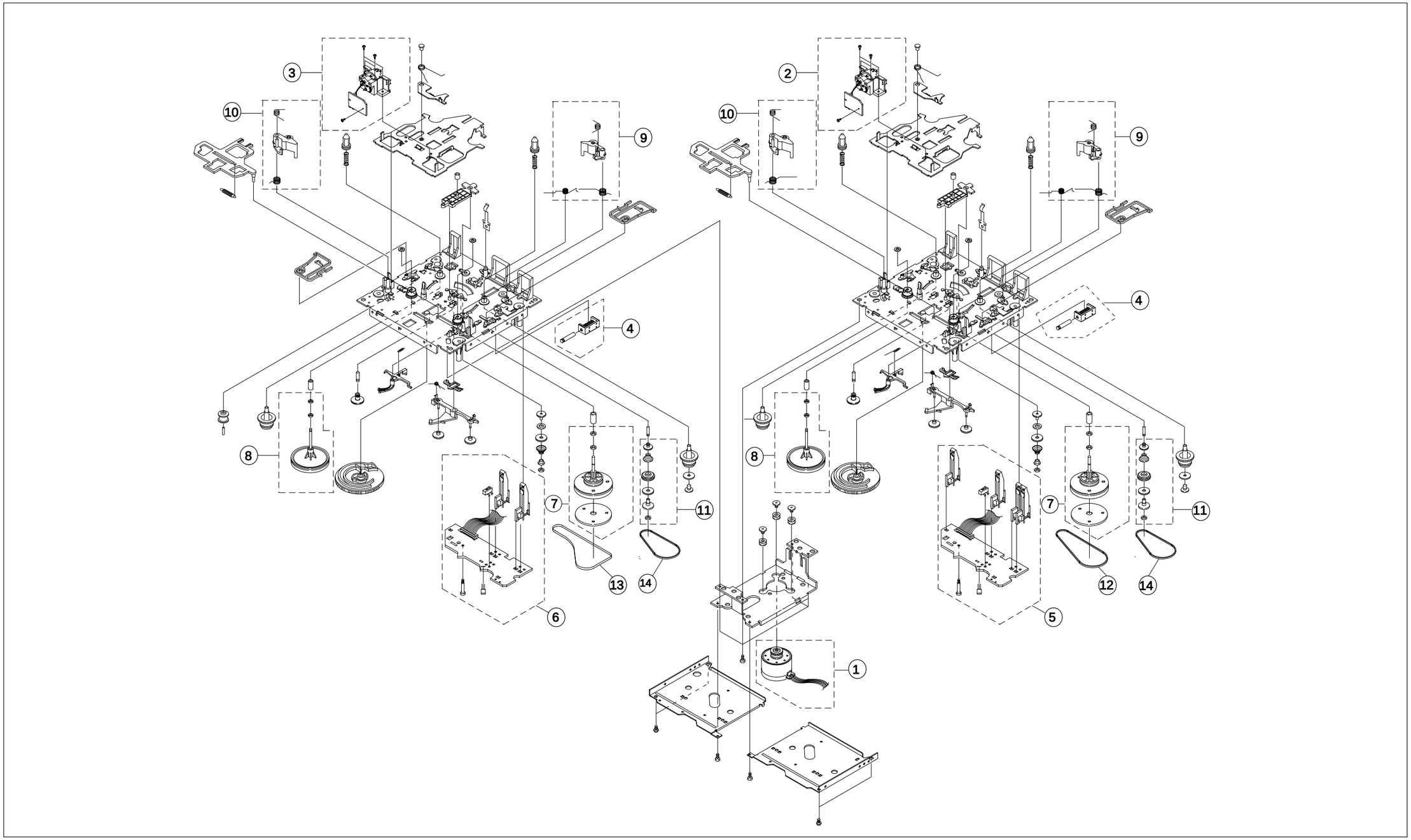
6-3-2 Audio Output Malfunction



7.Exploded Views and Parts List

7-1 Cassette Deck Exploded View and Parts List

7-1-1 Cassette Deck Exploded View



7-1-2 Parts List

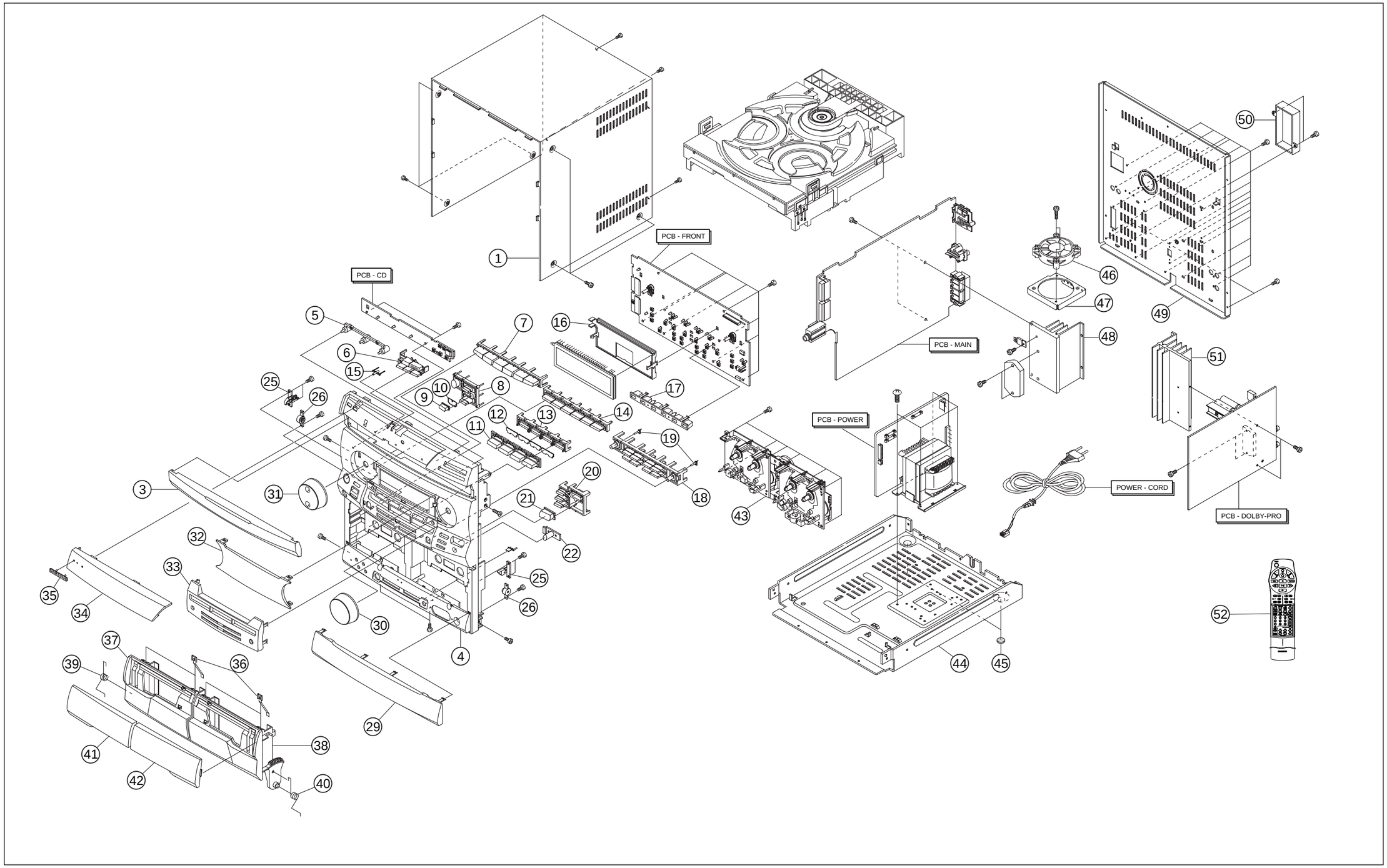
No.	New Code No.	Description	Specification	Old Code No.
	AH59-20004J	CASSETTE DECK	ADR2112TW	
1	AH81-10798A	MOTOR ASS'Y	SHU2L-DOUBLE	
2	AH81-10798C	HEAD ASS'Y(R/P)	YK56RBB4N3	
3	AH81-10798D	HEAD ASS'Y(P/B)	YK50PBB4N3	
4	AH81-10798E	SOLENOID ASS'Y	ADR2100-01	
5	AH81-10798F	CNTR ASS'Y(R/P)	ADR2100-02	
6	AH81-10798G	CNTR ASS'Y(P/B)	ADR2100-03	
7	AH81-10798H	FLYWHEEL ASS'Y(F)	ADR2100-04	
8	AH81-10798J	FLYWHEEL ASS'Y(R)	ADR2100-05	
9	AH81-10798K	PINCH ARM(F)	ADR2100-06	
10	AH81-10798M	PINCH ARM(R)	ADR2100-07	
11	AH81-10798N	CLUTCH ASS'Y	ADR2100-08	
12	AH81-10798P	MAIN BELT(R/P)	ADR2112TW-01	
13	AH81-10798S	MAIN BELT(P/B)	ADR2112TW-02	
14	AH81-10798U	SUB BELT	ADR2100-09	

7-2-2 Parts List

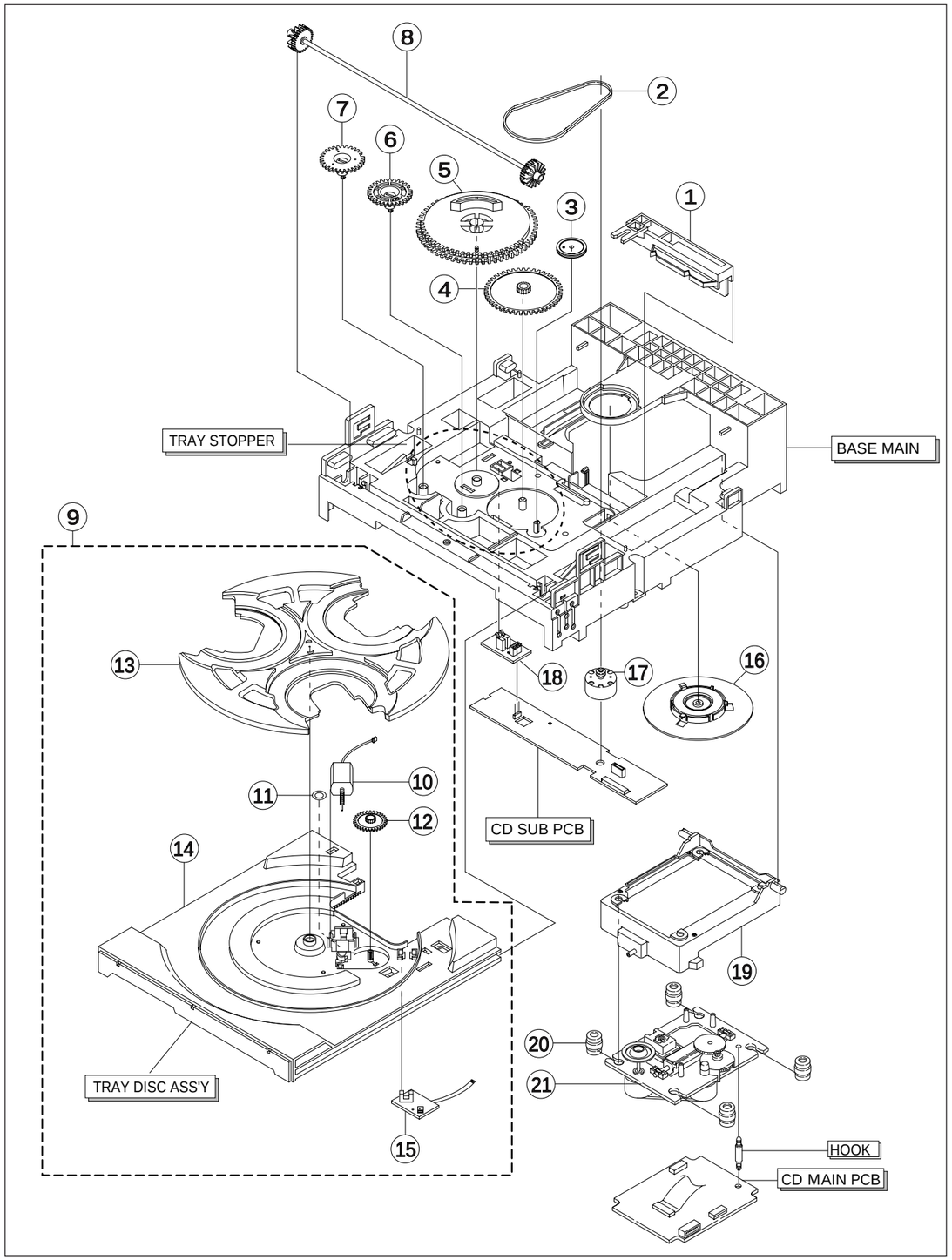
No.	New Code No.	Description	Specification	Old Code No.
1	AH64-30351A	CABINET-TOP	PVC STEEL,T0.75 MAX630	
3	AH64-50305E	DOOR-TRAY	SILVER	
4	AH64-30350L	CABINET-FRONT	MIPS BLK,MAX630	
5	AH67-10103A	LENS-SKIP	PMMA, TRP+TI02,MAX630	
6	AH64-11003B	KNOB-OPEN/CLOSE	SILVER	
7	AH64-11005A	KNOB-DIRECTON	ABS 94HB,BLK,MAX630	
8	AH64-11008B	KNOB-POWER	SILVER	
9	AH67-10100C	LENS-AI OFF	PMMA, +TI02, MAX630	
11	AH64-11004A	KNOB-FUNCTION	PMMA +TI02 MAX630	
13	AH61-20355A	HOLDER-FUNCTION	ABS 94HB,WHT MAX630	
14	AH64-10999A	KNOB-ENTER	ABS 94HB,BLK,MAX630	
15	AH67-10105A	LENS-JOG	PMMA +TI02 MAX630	
16	AH61-20079A	HOLDER-VFD	ABS 94HB,BLK MAX-380	
17	AH61-20359A	HOLDER-DIRECTION	ABS 94HB,WHT MAX630	
18	AH64-11006B	KNOB-DECK	SILVER	
19	AH67-10101A	LENS-KNOB	PMMA +TI02 MAX630	
20	AH64-11007B	KNOB-SBS	SILVER	
21	AH67-10104C	LENS-PRO	PMMA +TI02 MAX632P	
22	AH67-10102A	LENS-REMOCON	PMMA BRN MAX630	
25	AH95-50001A	LATCH-ASS'Y	MAX555	
26	AH61-80030A	DAMPER-ASS'Y	POM, N0.8,G130,BLK,MAX630	
29	AH61-20358F	CAP-DUMMY	ABS 94HB, BLK MAX632P	
30	AH64-11011B	KNOB-VOLUME	ABS 94HB,BLK MAX630	
31	AH64-11002B	KNOB-JOG	SILVER	
32	AH64-40350C	WINDOW-TUNER	PMMA,VIO,MAX630	
33	AH61-20352G	CAP-FRONT	SILVER	
34	AH64-40351P	WINDW-CD	PMMA VIO MAX632P	
35	AH64-70003B	BADGE-BRAND	AL, L30	
36	AH61-60192A	SPRING TAPE	SUS, PI0.35,COM	
37	AH64-50303D	DOOR-CASS,A	SILVER	
38	AH64-50304D	DOOR-CASS,B	SILVER	
39	AH61-60305A	SPRING-DOOR,L	TS,SUS27,PI1.0 MAX-630	
40	AH61-60306A	SPRING-DOOR,R	TS,SUS27,PI1.0 MAX-630	
41	AH64-40352C	WINDOW-DOOR,A	PMMA VIO MAX-630	
42	AH64-40353C	WINDOW-DOOR,B	PMMA VIO MAX-630	
43	AJ59-20004J	DECK-CASSETTE	ADR2112TW	
44	AH64-30352A	CABINET-BOTTOM	SECC,T1.0 MAX630	
45	AH64-80032A	FOOT-CUSHION	HH-38C T2.0 BLK, MAX-630	
46	AH31-10020A	FAN-DC	D0620B-12M, 12VDC 10.16A	
47	AH61-10627A	BRKT-FAN	SECC T1.0 NTR MAX-630	
48	AH62-30105A	HEAT-SINK,M	AL T6.0 WHT MAX-630	
49	AH64-30353K L	CABINET-REAR	2 VOLTAGE,SECC,T0.8,GRAY -,SECC,T0.8,GRAY	
50	AH63-30071A	COVER-REAR	ABS 94HB MQ485Z	
51	AH62-30121A	HEATSINK PRO	AL EXTR MAX632P	
52	AH59-10096A	REMOCON-ASSY	MAX-632P	

7-2 Main Exploded View and Parts List

7-2-1 Exploded View



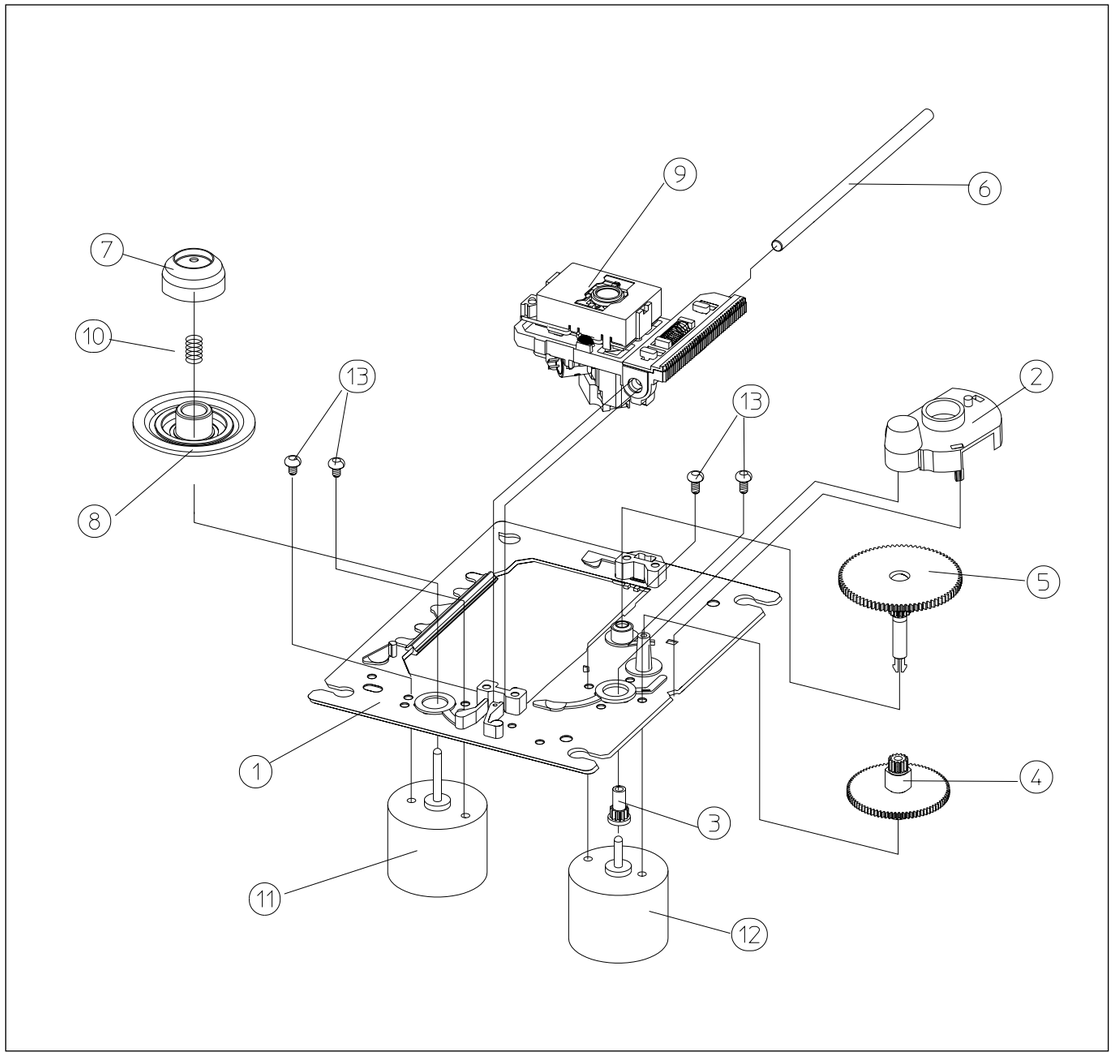
7-3 CD Mecha Exploded View and Parts List



No.	New Code No.	Description	Specification	Old Code No.
1	AH66-80022A	SLIDER-CAM	ABS HF-380 NTR	
2	AH66-60034A	BELT-LOAD	CR	
3	AH66-20186A	GEAR-PULLEY	POM(M90-44) WHT	
4	AH66-20187A	GEAR-LOAD	POM(M90-44) BLK	
5	AH66-20188A	GEAR-CAM	POM(M90-44) WHT	
6	AH66-20189A	GEAR-TRAY	POM(M90-44) BLK	
7	AH66-20190A	GEAR-CONVERT	POM(M90-44) WHT	
8	AH66-20191A	GEAR-SYNCRO	ABS HF-380 NTR	
9	AH59-10097A	ASSY-TRAY DISC	CMS-300, ASS'Y-TRAY	
10	AH59-10098A	ASS-WORM-MOTOR	CMS-300, ASS'Y-WORM	
11	AH69-20044A	CUSHION-MOTOR	NBR BLK	
12	AH66-20193A	GEAR-ROULETTE	POM(M90-44) BLK	
13	AH66-90056A	TRAY-ROULETTE	ABS XR-401 BLK	
14	AH66-90055A	TRAY-DISC	-,ABS,-,BLK	
15	AH59-10099A	ASSY-PCB SENSOR	CMS-300,ASS'Y SENSOR	
16	AH59-10100A	ASSY-TABLE CHUCK	CMS-300,ASS'Y CHUCK	
17	AH59-10101A	ASSY-PULLEY-MOTOR	CMS-300,ASS'Y CHUCK	
19	AH66-30086A	LEVER-LIFTER	ABS HF-380 BLK	
20	AH73-10016A	RUBBER-CD	IRR	
21	AJ59-20003F	DECK-CDP	DECK-CD *CMS-A30NG6	

7-4 CD Deck Exploded View and Parts List

7-4-1 Exploded View



7-4-2 Parts List

No.	New Code No.	Description	Specification	Old Code No.
	CMSP30NM6	DECK-CD	BASIC	
1	AH61-10022C	CHASSIS-DECK(M)	CMSA30 POM M90-44	12001-0052-02
2	AH63-30048A	COVER-GEAR	CMS-V30 BLK ABS	13313-0057-00
3	AH66-20016A	GEAR(A)	CMS-V30 M0.3 Z13 SP POM	11474-0017-00
4	AH66-20017A	GEAR(B)	CMS-V30 M0.3 Z13 SP POM	11474-0018-00
5	AH66-20018A	GEAR(C)	CMS-V30 M0.3 Z16/Z90 SP POM	11747-0019-00
6	AH71-50036A	SHAFT-PU	CMS-V30 D3 L79 SUS420J2	11404-0041-00
7	15253-503-011	CENTER-RING	ABS+GS 20% CMS-V10N	15253-503-011
8	AH66-90018A	TURN-TABLE(M)	ABS+GS 20% CMS-V10N	1223-0003-00
9	AJ30-20001B	PICK-UP CDP	P/U SOH-A1 ROW V-P/J	*SOH-AP
10	AH61-60055A	SPRING-T/TABLE	CS STS-W PI0.4 D5.7 L9.3 CMS-V10N	12724-0062-00
11	AH31-10009A	MOTOR-SPINDLE	RF-310T-11400 43L 25V 85mA	16829-0004-00
12	AH31-10002B	MOTOR-FEED	RF-310ta 30MM NDM4RA3ETL 11.0MM	14769-057-250
13	AH60-10014A	SCREW-PH(+M2*3)	+M2X3 FE FZY W700	17008-120-032

8. Electrical Parts List

Location No.	New Code No.	Description	Specification	Old Code No.
	AH26-80141B	TRANS-POWER;EI85.8X57,115/230V,60/5		
	AH39-10002K	POWER CORD;CP2,KLCE-2F,2.15M,5239,V		A6006-0186
	AH59-10096A	REMOCON-ASSY;-,-,-,60,MAX632P,S.S		
	14539-504-030	CERAMIC-RESONATOR;CSB455EBL		
	AH11-10003F	IC-MASK ROM;BU2478,-,SOP		
	AH59-90192F	SPEAKER-SYSTEM;PS 632P,MAX632,ERP		
	AH90-10722Q	ASSY-MAIN PCB;MAX632P,SEG		
LD1L,1R,2L,2R,3L,3R,4,5,6 AD3,4,CD1,2,3 MD1,2,3,4,5,6,KD1,3,AD1 JD1,5,RD10,14,15,17,18 AD2,JD6	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
JD3,4,RD13,16 RD7,20 RD7,20	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41		A4104-0001
RD3,5,6,11,12	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-4		A4104-0053
RD4	0402-000151	DIODE-RECTIFIER;1N5392,100V,1.5A,DO		12169-201-140
RD9	0402-000157	DIODE-RECTIFIER;1N5402,200V,3A,DO-2		12169-209-260
RD1,2	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4		12169-219-330
DJZD2	0403-000342	DIODE-ZENER;UZ3.6BSA,3.6V,3.47-3.68		12169-404-770
RZD6	0403-000355	DIODE-ZENER;UZ5.1BSB,5.1V,4.97-5.18		12169-404-780
FZD1	0403-000372	DIODE-ZENER;UZ9.1BM,9.1V,8.5-9.6V,5		12169-403-320
RZD3	0403-000380	DIODE-ZENER;UZP13B,13V,12.4-14.1V,1		12169-403-740
RZD1	0403-000382	DIODE-ZENER;UZP15B,15V,13.9-15.6V,1		12169-403-920
RZD4	0403-000384	DIODE-ZENER;UZP20B,20V,18.9-21.1V,1		12169-403-930
MZD1	0403-000394	DIODE-ZENER;UZP5.6B,5.6V,5.2-6.0V,1		12169-404-110
RZD2,5	0403-000396	DIODE-ZENER;UZP6.8B,6.8V,6.4-7.2V,1		12169-404-100
MZD2,DJZD1	0403-000398	DIODE-ZENER;UZP8.2B,8.2V,7.7-8.7V,1		12169-403-600
RQ11,2,6	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6		12149-301-050
HQ2	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800MW,		12149-101-560
KQ1,3	0501-000296	TR-SMALL SIGNAL;KSA709-Y,PNP,800MW,		12149-101-570
AQ2,3	0501-000331	TR-SMALL SIGNAL;KSC1009-Y,NPN,800MW		12139-301-310
LQ4,5,RQ7,10,DJQ3	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO		12149-301-910
HQ1,3	0501-000392	TR-SMALL SIGNAL;KSC838-O,NPN,250MW,		12149-301-860
CQ7,KQ2,HQ4,6,7 RQ12,14,LQ3,MQ1 FQ2	0501-000398	TR-SMALL SIGNAL;KSC945-Y,NPN,250MW,		12149-301-900
DQ2L,2R,AQ1L,1R	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800MW		12149-401-150
CQ1,3,5	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO		
RQ1,FQ1	0502-000241	TR-POWER;KSA614,PNP,25W,TO-220,BK,4		12139-103-560
RQ4	0502-000424	TR-POWER;2SB1566-F,PNP,2W,TO-220FN,		B4052-0086
RQ3	0502-000425	TR-POWER;2SD2395-F,NPN,2W,TO-220FN,		B4052-0087
CQ2,4,6,8	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K-22		12159-301-780
LQ1L,1R,DQ3,4,OQ1L,1R	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300MW,4.7K,		12159-301-790
DJQ1,2	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47		
LQ2,DQ5,KQ4,OQ2	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22		
DQ1L,1R	0505-000197	FET-SILICON;2SK373Y,N,-,-,-,400MW,T		B4054-0023

Location No.	New Code No.	Description Specification	Old Code No.
BIC3,FIC2,4,HIC1 QIC1, SIC3	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1	12119-401-300
AIC1	1201-000340	IC-POWER AMP;4191,SIP,18P,-,DUAL,-,	12119-205-050
JIC1	1201-000364	IC-PREAMP;3442A,QFP,56P,-,DUAL,-,PL	B4012-0417
RIC2	1203-000110	IC-NEGA.FIXED REG.;7912,TO-220,3P,-	12109-401-700
RIC8	1203-000242	IC-POSI.FIXED REG.;7812,TO-220,3P,-	12109-401-690
RIC1	1203-000276	IC-POSI.FIXED REG.;7805,TO-220,3P,-	12119-601-770
RIC6	1203-000282	IC-POSI.FIXED REG.;7806,TO-220,3P,-	12119-601-830
RIC7	1203-000294	IC-POSI.FIXED REG.;7808,TO-220,3P,-	12109-401-730
DIC1	1204-000134	IC-DNR PROCESSOR;KA2271B,DIP,16P,-,	12109-323-990
FIC1	1204-000235	IC-VOLUME CONTROL;TDA7318,SOP,28P,-	B4008-1199
FIC5	1204-001028	IC-VOLUME CONTROL;LC7536,DIP,30P,27	
RR9-1,36-1,RR2-1	13954-100-310	CERAMIC-PIPE;PI1.4 15MM WHT	
RR6	13954-500-210	CERAMIC-PIPE;PI1.4 7MM	
THERMISTOR	1404-000172	THERMISTOR-NTC;100OHM,-,-,-,BK	
DR57	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3	11018-877-391
DR19	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4X6	11018-277-101
AR12	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.	11018-377-101
RR35	2001-000065	R-CARBON;10KOHM,5%,1/4W,AA,TP,2.4X6	11018-277-103
RR31,11	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.	11018-377-103
RR20	2001-000068	R-CARBON;12KOHM,5%,1/4W,AA,TP,2.4X6	11018-277-123
AR7,15	2001-000070	R-CARBON;15KOHM,5%,1/4W,AA,TP,2.4X6	11018-277-153
RR23,28	2001-000071	R-CARBON;22KOHM,5%,1/4W,AA,TP,2.4X6	11018-277-223
DR61	2001-000109	R-CARBON(S);470OHM,5%,1/2W,AA,TP,2.	11018-377-471
FR3	2001-000111	R-CARBON;150OHM,5%,1/4W,AA,TP,2.4X6	11018-277-151
RR3,4	2001-000117	R-CARBON(S);68OHM,5%,1/2W,AA,TP,2.4	11018-377-680
AR8,10,DR35	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3	11018-877-101
DR34,37	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
MR17	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-100
MR11,DR20	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-123
MR43L,43R,RR29	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-183
AR1L,1R,2R,BR8L,8R MR25,JR5L,5R,SR44R	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
MR15,RR7,8,32 FR4,JW13	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
FR4,JW13			
RR39	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP,1.8X	11018-877-224
AR3R	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3	11018-877-221
RR21,24,30,37,DR40R FR1,RR5	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-223
FR6	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X	11018-877-392
DR12	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
MR21	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X	
QR5R	2001-000869	R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-560
FR2	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X	11018-877-682
DR24L,24R	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3	11018-877-681
AR5,6	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4	11018-377-102
RR14	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2	11018-377-222
DR56	2001-001096	R-CARBON(S);2.2OHM,5%,1/2W,AA,TP,2.	11018-377-229
JR11	2001-001140	R-CARBON(S);39OHM,5%,1/2W,AA,TP,2.4	11018-377-390
DR48	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.	11018-377-681

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RR36	2003-000471	R-METAL OXIDE(S);10OHM,5%,2W,AA,TP,	11048-577-100
MR33	2003-000522	R-METAL OXIDE(S);180OHM,5%,1W,AA,TP	11048-477-181
RR19	2003-000534	R-METAL OXIDE(S);1KOHM,5%,1W,AA,TP,	11048-477-102
RR2,9	2003-000593	R-METAL OXIDE(S);22OHM,5%,3W,AA,TP,	11048-677-220
AR13L,13R	2003-000690	R-METAL OXIDE(S);4.7OHM,5%,2W,AA,TP	11048-577-479
RR1	2003-000701	R-METAL OXIDE(S);470OHM,5%,2W,AA,TP	11048-577-471
MR29	2003-000708	R-METAL OXIDE(S);47OHM,5%,1W,AA,TP,	11048-477-470
FR5	2003-000710	R-METAL OXIDE(S);47OHM,5%,2W,AA,TP,	11048-577-470
RR6	2003-000800	R-METAL OXIDE(S);820OHM,5%,2W,AA,TP	11048-577-821
J10,11,12,13,14,16,19,17 J20,21,22,23,26,27,28,29 J31,33,34,36,37,39 J40,41,42,43,44,45 DR33L,33R,JR10 J47,32,FJ1,2	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	11119-101-000
RR34,DR32L,32R	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	11119-101-152
DR1L,1R,26,42,43,44,50 DR36,51,52,DR71L,71R MR32,RR15,SR40L SR40R	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
DR18,JR9,AR14,MR4	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	11119-101-101
BR7L,7R,DR13,27,45 DR54,55,59,MR14,16 MR36,37,DR60,62,39	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
MR9	2007-000308	R-CHIP;10OHM,5%,1/10W,DA,TP,2012	11119-101-100
DR9L,9R	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
DR10L,10R,23 XR2L,2R	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	11119-101-153
MR48	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	11119-101-183
FR1L,1R,DR11L,11R,16 MR6,31	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
AR2L,DR58,KR1,QR1L RR41,42,SR44L	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
DJR2,DR4L,4R,JR7L,7R MR50,RR43,22 BR9L,9R SR2L,2R	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
DR7	2007-000498	R-CHIP;2.2MOHM,5%,1/10W,DA,TP,2012	11119-101-225
MR5 BR10L,10R	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	11119-101-272
MR10,46,AR3L AR3R AR3R	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	11119-101-221
DJR1,JR8L,8R,KR2,5 MR13,20,47 DR40L,RR13,18 AR5L,5R RR10,BR11	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
MR27	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012	11119-101-220
RR38,SR39L,39R	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	11119-101-273
DR70,MR45,28,SR2L,2R	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332

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RR16			
CR1L,1R,DR46,47,DSR6	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	11119-101-392
MR26,44L,44R,RR26			
MR49	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	11119-101-331
DR31L,31R,XR1L,1R	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	11119-101-333
DR17,SR3L,3R			
MR8	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	11119-101-391
DR28	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	11119-101-393
MR1,2,19,23,24,38	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
MR39,40,41,BR14,25			
BR29,KR3,RR17,33			
FR4L,4R,QR3L,3R,4L,4R			
QR2L,2R,JR11L,11R	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
SR29,35			
JR1L,1R,2L,2R,6L,6R			
SR1L,1R			
DR6L,6R,5L,5R,30L,30R	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	11119-101-562
DR8,38,DR41L,41R			
CR2L,2R,3L,3R,KR4,6			
RR25,FR2L,2R,MR18			
AR4L,4R,9L,9R,DR15	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
QR5L			
DR7L,7R,21,22	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	11119-101-682
RR27,MR34			
AR11L,11R,DR49,53	2007-001118	R-CHIP;680OHM,5%,1/10W,DA,TP,2012	11119-101-681
MR30			
SR28,34	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	11119-101-822
DR2L,2R	2007-001201	R-CHIP;820OHM,5%,1/10W,DA,TP,2012	11119-101-821
DR3L,3R	2007-001213	R-CHIP;82OHM,1%,1/10W,DA,TP,2012	11119-102-820
RR12	2008-000154	R-FUSIBLE;33OHM,5%,1/4W,AA,TP,2.6X6	A1010-0023
MSR1	2103-000171	VR-SEMI;10KOHM,30%,1/10W,TOP	11249-102-034
DSR1L,1R	2103-000248	VR-SEMI;200KOHM,30%,1/10W,TOP	11249-102-094
DSR3L,4L,MSR2	2103-000290	VR-SEMI;20KOHM,30%,1/10W,TOP	11249-102-044
DSR5	2103-000341	VR-SEMI;2KOHM,30%,1/10W,TOP	11249-102-104
DSR2L	2103-000461	VR-SEMI;50KOHM,30%,1/10W,TOP	11249-102-064
LC1L,1R,MC42	2201-000368	C-CERAMIC,DISC;220PF,10%,50V,SL,6.5	11407-018-221
RC1,3	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC	11469-501-070
AC13L,13R	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.	11417-344-473
AC11L,11R	2201-000753	C-CERAMIC,DISC;4.7NF,10%,50V,Y5P,-,	
MC27	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P	11449-518-102
MC6	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25	11448-010-223
MC11	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5	
FC2L,2R,3L,3R,JC11	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5	
FJC1,2,FSC1,2,FFC1,FDC1	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5	
ZC8,9,10			
MC33,34,35,24,XC1L,1R	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,201	11129-009-101
SC2L,2R			
DC39L,39R	2203-000323	C-CERAMIC,CHIP;12NF,10%,50V,X7R,201	11129-004-123
LC4	2203-000374	C-CERAMIC,CHIP;15NF,5%,50V,X7R,2012	11129-004-153
MC26	2203-000408	C-CERAMIC,CHIP;180PF,5%,50V,NPO,201	11129-008-181
MC14	2203-000417	C-CERAMIC,CHIP;18NF,10%,50V,X7R,201	11129-004-183

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MC3	2203-000429	C-CERAMIC,CHIP;18PF,5%,50V,NPO,2012	11129-008-180
LC5	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20	11129-004-222
FJC4L,4R,3,FDC2,3			
FC11,12	2203-000533	C-CERAMIC,CHIP;2.7NF,10%,50V,X7R,20	11129-004-272
DC7L,7R,23,19,MC1,5,6	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201	11129-004-223
MC43	2203-000671	C-CERAMIC,CHIP;27NF,10%,50V,X7R,201	11129-001-273
DC46L,46R,MC47L,47R	2203-000716	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,20	11129-004-332
MC15	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201	
MC16L,16R	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201	11129-001-333
LC6	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
JC10L,10R			
MC36	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5	
AC3L,3R,DC45L,45R	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
DC2L,2R			
MC2,8,10,22,MFC1	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	
LC10L,10R	2203-001223	C-CERAMIC,CHIP;820PF,10%,50V,X7R,20	A1100-0023
MC30	2203-001517	C-CERAMIC,CHIP;15PF,5%,50V,NPO,2012	
DC15,40L,40R,41,43,44	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012	
MC32,CC4			
DC47L,47R	2203-001550	C-CERAMIC,CHIP;1.2NF,10%,50V,X7R,20	
DC18	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20	
DC1L,1R	2203-001613	C-CERAMIC,CHIP;24PF,0.25PF,50V,NPO,	
MC29,44	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,2012	
LC2	2301-000365	C-FILM,PEF;1.5NF,10%,50V,5.5X7X2.8M	
AC12L,12R	2303-000312	C-FILM,PPF;100NF,5%,63V,7.5X12.5X3.	A1102-0164
DC33,JC9L,9R,MC31	2401-000240	C-AL;100UF,20%,10V,GP,6*11MM,5MM,TP	11608-102-104
RC12,CC1	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,	11608-104-104
RC7	2401-000375	C-AL;100UF,5%,100V,GP,10X20,5MM,TP	
DC20,22,34,MC7,9,23,LC9	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
QC1L,1R,FC4L,4R,MC12			
LC8	2401-000438	C-AL;10UF,20%,25V,GP,5*11,2MM,	11608-104-103
AC7,8,9,RC29	2401-000475	C-AL;10UF,20%,50V,GP,5*11,2MM,	11608-106-100
MC40	2401-000795	C-AL;220UF,20%,16V,GP,8X11.5,3.5MM,	
RC8	2401-000847	C-AL;220UF,20%,35V,GP,10X12MM,5MM,T	11608-105-221
RC13,FC1	2401-000871	C-AL;220UF,20%,50V,GP,10X16MM,5MM,	11609-402-300
FC14	2401-000907	C-AL;22UF,20%,16V,GP,5*11,2MM,	11608-103-223
RC28,AC2L,2R,MC28	2401-001022	C-AL;3.3UF,20%,50V,GP,5*11,2MM,	11608-106-332
JC12	2401-001164	C-AL;33UF,20%,16V,GP,5*11,2MM,	11608-103-333
JC13,RC14	2401-001364	C-AL;470UF,20%,16V,GP,10X12MM,5MM,T	11608-103-471
RC2	2401-001413	C-AL;470UF,20%,35V,GP,10X20,5MM,	11609-402-130
DC6L,6R,25,RC25,27	2401-001465	C-AL;47UF,20%,10V,GP,5*11,2MM,	11608-102-473
FC13,RC15	2401-001538	C-AL;47UF,20%,25V,GP,6X11,2.5MM,-	
AC4L,4R	2401-001572	C-AL;47UF,20%,50V,GP,6.3*11,2.5MM,	11608-106-470
DC36L,36R	2401-001645	C-AL;680NF,20%,50V,GP,5*11,2MM,	11608-106-688
DC16,12,17	2401-001895	C-AL;100UF,20%,16V,GP,6.3X11MM,2.5M	
DC13,RC24,MC18L,18R	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK	
MC17,20,25,RC9			
JC8			
RC11	2401-001928	C-AL;2200UF,20%,35V,GP,16X31MM,7.5M	11607-105-222
RC10	2401-001942	C-AL;3300UF,20%,35V,GP,18X35.5MM,7.	11607-105-332
MC19L,19R,JC2L,2R,RC23	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,TP	

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DC11L,11R,JC7L,7R,5L,5R,4L,4R			
SC3L,3R,RC17,8L,8R			
OC1			
KC1,MC21	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP	
LC3,7,MC4,13,DC32	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
AC6	2401-001994	C-AL;3.3UF,20%,50V,BP,5*11MM,5MM,TP	11608-206-339
RC6	2401-002168	C-AL;100UF,0.2,50V,GP,10X12.5,5MM,T	
AC5			
AC10			
FC5L,5R,DC21L,21R,26L	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	
DC26R,FC6L,6R,7L,7R			
FC8L,8R,9L,9R,FC1L,1R			
DC31L,31R,30L,30R,9L			
DC9R,38R			
DC10L,10R,14,35L,35R,38L			
RC4,5	2401-002258	C-AL;4700UF,20%,50V,GP,22X40MM,5MM,	
CL1,FL1	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	12429-411-100
FL2L,2R	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM	12429-211-330
LL1	2701-000298	INDUCTOR-AXIAL;470UH,10%,4.2X9.8MM	12429-070-130
MX1	2801-003152	CRYSTAL-UNIT;7.2MHZ,20PPM,28-AAS,12	
HX1	2802-000215	RESONATOR-CERAMIC;19KHZ,+-38HZ,-,7.	14539-504-100
IFT5	2903-000148	FILTER-CERAMIC;BP,450KHZ+-1KHZ	A1243-0049
DLPF2L,2R	2909-000210	FILTER-LC;LP,-,1DB,30DB/19KHZ,50DB/	14529-414-050
FB2L,2R,3,4	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,	14049-033-420
P/B DECK	3708-000446	CONNECTOR-FPC/FC/PIC;11P,1.5MM,STRA	B6010-1547
R/P DECK	3708-000447	CONNECTOR-FPC/FC/PIC;13P,1.5MM,STRA	B6010-0399
CCW1,2	3710-000541	CONNECTOR-SOCKET;20P,-,1.25MM,STRAI	
FCW3	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST	13349-512-561
TP1,2,3,P/B HEAD	3711-000903	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST	13349-527-502
R/P HEAD	3711-001011	CONNECTOR-HEADER;BOX,5P,1R,2.5MM,ST	13349-103-053
CCDW2	3711-001137	CONNECTOR-HEADER;BOX,8P,1R,2MM,	13349-119-080
FCW6	3711-003110	CONNECTOR-HEADER;BOX,4P,1R,2.5MM,ST	
	3716-000198	TERMINAL-BLOCK;NON SOLDER,3P,4MM,-,	A3059-0007
MJ1	3716-000201	TERMINAL-BLOCK;NON SOLDER,4P,4MM,-,	A3059-0006
AJ1	3716-000204	TERMINAL-BLOCK;NON SOLDER,4P,11MM,-	A3059-0017
HJK1	3722-000363	JACK-PHONE;9P,6.4MM,AU,BLK,-	A3040-0115
AUX JACK	3722-000377	JACK-RCA;4P/2C,3.5MM,SN,BLK,#16~22	A3040-0218
AIC1	6003-000279	SCREW-TAPTITE;BH,+,B,M3,L20,ZPC(YEL	17448-130-201
RQ1,3,RIC1,2,6,7,8,AIC1	6003-000283	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(YEL)	17458-130-081
FIC9	AH14-10003E	IC;KIA7812PI,-,TO-220	
FIC3	AH14-10004L	IC;NJU3718,SOP,BULK	
FIC6	AH14-10006F	IC;TC9173P,DIP,EXPANDER 16P	
MIC2	AH14-10007G	IC;LC72131,DIP,STICK PLL	
MIC1	AH14-10007H	IC;LA1836,DIP,STICK IF+MPX	
MLPF1L,1R	AH26-10001A	TRANS-IF;FV-AD-BASE19K/38K,LOW PASS	12450-304-040
IFT4	AH26-10001E	TRANS-IF;KS940228-09,-,-,7.6X12.0,-	12619-030-005
DLPF3L,3R,1L,1R	AH26-10002X	COIL-TRAP;KS940830-05,BIAS-TRAP,30D	12429-206-102
LL3	AH26-10003C	COIL-TRAP;PCHNS-5371EQJ,BIAS-TRAP,-	12619-577-771
IFT6	AH26-10020A	TRANS-DET;-,7KLL,DET,-,7.8MM,91PF,1	
MCO1	AH27-80060B	COIL-OSC;RBQ-07VB,393UH,MW/LW-RF	

Location No.	New Code No.	Description Specification	Old Code No.
AL1L,1R	AH27-90001A	COIL-SPRING;,2.2UH,-,-,SPRING	12429-060-030
REAR	AH31-10020A	FAN-DC;D0620B-12M,12VDC/0.16A,	A3070-0112
FCW2	AH39-20008M	LEAD-CONNECTOR ASS'Y;5264,5395,2P,1	13078-472-115
FCW7	AH39-20009C	LEAD-CONNECTOR ASS'Y;5264,5395,4P,1	13078-474-110
R/P HEAD	AH39-20019C	LEAD-CONNECTOR ASS'Y;EHR,5264,5P,35	16439-0115-00
FCW5	AH39-20019M	LEAD-CONNECTOR ASS'Y;5051,5395,3P,2	16439-0124-00
RCW1	AH39-20514A	LEAD CONNECTOR-ASSY;-,5264,51088,10	
P/B DECK	AH39-20517A	LEAD CONNECTOR-ASSY;-,5264,EHR-03,3	
	AH39-50001N	LEAD-FASTEN;RING,1007#24,250MM,BLK	13059-202-253
JD2	AH39-50030A	LEAD-PASTEN;-,1007#24,350MM,RED	
MAIN PCB	AH41-10401A	PCB-MAIN;MAX630,1L,PHENOL,330X247X1	
RIC2,RQ1	AH62-30060A	HEAT SINK-CD;AL,-,T1.0,-,-,-,SCM-70	15684-505-820
RIC1	AH62-30061B	HEAT SINK-,S;SCM6500,AL,-,EXTR,BLK,	15684-507-530
RQ3	AH62-30064D	HEAT SINK;DAT7000,AL,-,ANODIZING,BL	15684-509-730
AIC1	AH62-30105A	HEAT SINK-M;-,AL,-,T6.0,-,WHT,-,MAX	
	2903-000102	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ	14529-301-770
	2903-000105	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ	14529-301-753
	AH40-10025E	TUNER-FM;FTA4-460H,4G,75OHM	
	2903-000148	FILTER-CERAMIC;BP,450KHZ,+-1KHZ	
AH90-10722U		ASSY-FRONT PCB;MAX632P,SEG	
UD1,3,4,5,6,7,8,9,10 UD11,13	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
UD2,22	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41	A4104-0001
UD12	0402-000151	DIODE-RECTIFIER;1N5392,100V,1.5A,DO	12169-201-140
UQ5,7,10,8	0501-000398	TR-SMALL SIGNAL;KSC945-Y,NPN,250MW,	12149-301-900
UQ1,2,3,4,6,11,12	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300MW,4.7K,	12159-301-790
ULD3,4,5,18,19,20,21,22 ULD23,24,30 ULD7,6,9,10,12,13,15,16	0601-000141	LED;ROUND,GRN,3.1MM,555NM	A4150-0290
ULD1,2,8,11,14,17,29 ULD26,27	0601-000180	LED;INVERTER,ORG,3MM,610NM	12309-001-210
ULD25,28	0601-000245	LED;ROUND,RED,3.1MM,650NM	12309-001-450
UIC4	1204-000156	IC-EQUALIZER;BA3834S,DIP,18P,-,PLAS	B4012-0447
UR53	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X	11018-877-152
UR107,108,109,110 UR113,143	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
UR23	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-100
UR104,130,131,57	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
UR17	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X	11018-877-332
UR60,64,66	2001-000666	R-CARBON;33OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-330
UR100,101,132	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-473
UR76	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-470
UR74	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-820
UR13,14,15,68	2007-000023	R-CHIP;120OHM,5%,1/10W,DA,TP,2012	11119-201-121
UR6,7,29,30,40,41,51,52	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	11119-101-122
UR8,31,42	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	11119-101-152
UR22,96,97,98	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
UR69,71,72	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	11119-101-101
UR55,56,95,129,135 UR136,137,138,139,140	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103

Location No.	New Code No.	Description Specification	Old Code No.
UR141,142,115,114,143			
UR4	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
UR75,61,63,65,67,70	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP,2012	11119-101-151
UR77,78			
UR11,12	2007-000449	R-CHIP;180OHM,5%,1/10W,DA,TP,2012	11119-101-181
UR21	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	11119-101-183
UR24,26,28,37,39,48,50	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
UR5,99			
UR32,43,9,124,125,126	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
UR127,128,20,JW5			
UR10,16,33,44	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	11119-101-272
UR105	2007-000565	R-CHIP;220KOHM,5%,1/10W,DA,TP,2012	11119-101-224
UR106	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	11119-101-221
UR121	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
UR1,34,45	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332
UR62	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	A1020-0083
UR2,18,35,46,79,80,81,82	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
UR83,84,85,86,87,88,89			
UR90,91,92,93,94			
UR134,103,58			
UR3,19,36,47	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	11119-101-682
UR25,27,38,49	2007-001201	R-CHIP;820OHM,5%,1/10W,DA,TP,2012	11119-101-821
UC25,26	2201-000223	C-CERAMIC,DISC;12PF,5%,50V,NPO,5.0X	11407-057-120
UC13,14	2201-000423	C-CERAMIC,DISC;27PF,5%,50V,NPO,5.0X	11407-057-270
UC1,2,3,4	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5	
UC8	2203-000661	C-CERAMIC,CHIP;270PF,5%,50V,NPO,201	11129-015-271
UC6,7,9,10	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
UC17,23,21	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	
UC18	2401-000240	C-AL;100UF,20%,10V,GP,6*11MM,5MM,TP	11608-102-104
UC5,22	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T	11608-152-101
UC16,27,28,29	2401-000650	C-AL;2.2UF,20%,50V,GP,3*5,1MM,TP	11608-156-229
UC12	2401-000752	C-AL;220NF,20%,50V,GP,3*5,1MM,TP	11608-106-228
UC19	2409-000123	C-EDL;47000UF,4UA,5.5V,-,-,5MM,BK	B1104-0540
UX1	2801-001382	CRYSTAL-UNIT;12MHZ,50PPM,28-AAM,10P	A1280-0017
UX2	2801-001394	CRYSTAL-UNIT;32.768KHZ,20PPM,28-AAY	14539-502-350
USW1,2,3,4,5,6,7,8	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X	13559-901-100
USW9,10,11,12,13,14,15,16			
USW17,18,19,20,21,22,23,24			
USW25,26,27,28,29,30,31			
USW32,33,34,35,36,37,38			
USW39,40,41,42,43,44,45			
USW46,47,48,49			
MAIN VR,MAGIC JOG	3406-000162	SWITCH-ROTARY;5V,50MA,SPDT,20MM	A3012-0018
CCD2	3708-000307	CONNECTOR-FPC/FC/PIC;7P,1.25MM,ANGL	B6010-0810
CCD4	3708-000448	CONNECTOR-FPC/FC/PIC;6P,1.25MM,STRA	B6010-1610
CCD1	3708-000449	CONNECTOR-FPC/FC/PIC;7P,1.25MM,STRA	B6010-1104
CCD3	3708-000454	CONNECTOR-FPC/FC/PIC;22P,1.25MM,STR	B6010-1500
CCD5	3708-001027	CONNECTOR-FPC/FC/PIC;6P,1.25MM,ANGL	
CCDW1,2	3711-002581	CONNECTOR-HEADER;WALL,20P,1R,1.5MM,	
CCD1-2	3809-000180	CABLE-FLAT;30V,80C,250MM,7P,1.25MM,	16489-0010-00
CCD4-5	3809-000199	CABLE-FLAT;30V,80C,300MM,6P,1.25MM,	B6032-0072

Location No.	New Code No.	Description Specification	Old Code No.
VFD	AH07-20002N	V.F.DISPLAY;SVA-16MM04,-,-,NAX630	A4153-0114
UIC1	AH11-10002F	IC-MASK ROM;LC86P6232,-,DIP	B4000-0017
UIC2	AH14-10004L	IC;NJU3718,SOP,BULK	
UIC3	AH14-10007C	IC;NJU3711M,SOP,STICK EXPANDER 8BIT	
DCW1	AH39-20559X	LEAD CONNECTOR-ASSY;-,5264,51088,7P	
JW139UP	AH39-50001M	LEAD-FASTEN;RING,1007#24,350MM,BLK	13059-201-353
FRONT PCB	AH41-10403A	PCB-FRONT;MAX630,1L,PHENOL,297X247X	
REMOCON EYE	AH59-60001J	MODULE-REMOCON;GP1U271R,38KHZ,-,MES	B1294-0043
FLT	AH61-20079A	HOLDER-FLT;ABS,94HB,BLK,-,MAX-380,-	13322-0145-00
UD18	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
UD21,UD18	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	

AH90-10723B ASSY-POWER PCB;MAX632P,SGE

UD22	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41	A4104-0001
PC1,2	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC	11469-501-070
RF3,4,1	3601-000248	FUSE-FERRULE;250V,2A,TIME LAG,GLASS	14709-241-250
RF1,3,4,5,6	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	113164-101-913
PW1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM	13349-156-020
PCW1	3711-000588	CONNECTOR-HEADER;BOX,10P,1R,2.5MM,S	13349-103-103
FCW1	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST	13349-512-561
DPCW1	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST	
PL1,2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.	12429-010-330
	3601-000216	FUSE-FERRULE;250V,2.5A,TIME LAG,GLA	14709-441-262

AH90-10723J ASSY-PRO LOGIC PCB;MAX632P,BWT

DPD4,5,8,9,10,11	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
DPD2,3	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41	A4104-0001
DPD1	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4	12169-219-330
DPZD2,3	0403-000398	DIODE-ZENER;UZP8.2B,8.2V,7.7-8.7V,1	12169-403-600
DPZD1	0403-000399	DIODE-ZENER;UZP9.1B,9.1V,8.5-9.6V,1	12169-403-340
DPQ1,2	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800MW	12149-401-150
DPQ6	0504-000146	TR-DIGITAL;KSR2004,PNP,300MW,47K-47	12159-301-760
DPQ5,7	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47	
DPQ4,3	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22	
DPIC6	1001-000111	IC-ANALOG SWITCH;GD4066B,BILATERAL	
DPIC8,9,10	1201-000192	IC-OP AMP;4558,SIP,9P,-,DUAL,20V/MV	12119-401-630
DPIC3	1201-000339	IC-POWER AMP;4132,SIP,18P,-,DUAL,-,	A4010-0068
DPIC2	1203-000110	IC-NEGA.FIXED REG.;7912,TO-220,3P,-	12109-401-700
DPIC1	1203-000242	IC-POSI.FIXED REG.;7812,TO-220,3P,-	12109-401-690
DPIC7	1204-001028	IC-VOLUME CONTROL;LC7536,DIP,30P,27	
DPIC4	1204-001158	IC-DECODER;LV1015,DIP,24P,300MIL,PL	
DPIC5	1204-001159	IC-DECODER;LA2786,DIP,42P,600MIL,PL	
DPR6	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-683
DPR29,11	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.	11018-377-101
DPR7,37,54L,54R,56,57	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
DPR8	2001-000319	R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X	11018-877-124
DPR20,25,50,51,52	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
DPXR1	2001-000435	R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-105
DPR39,40,41	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-223
DPR22,23	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X	11018-877-332

Location No.	New Code No.	Description Specification	Old Code No.
DPR5,38	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-393
DPR21,24,SPR43L DPR43R	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
DPR32R,26,19	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-473
DPR17,32	2001-000857	R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3	11018-877-561
DPR14,15	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4	11018-377-102
DPR13,12,28,30	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2	11018-377-222
DPR33,34	2001-001195	R-CARBON(S);82OHM,5%,1/2W,AA,TP,2.4	11018-377-820
DPR4	2003-000534	R-METAL OXIDE(S);1KOHM,5%,1W,AA,TP,	11048-477-102
DPR1	2003-000593	R-METAL OXIDE(S);22OHM,5%,3W,AA,TP,	11048-677-220
DPR3	2003-000614	R-METAL OXIDE(S);27OHM,5%,1W,AA,TP,	11048-477-270
DPR2	2003-000616	R-METAL OXIDE(S);27OHM,5%,2W,AA,TP,	11048-577-270
DPR9,10	2003-000689	R-METAL OXIDE(S);4.7OHM,5%,1W,AA,TP	11048-477-479
DPC64,65	2201-000459	C-CERAMIC,DISC;30PF,5%,50V,NPO,5.0X	11407-057-300
DPC1	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC	11469-501-070
DPC13C,13S	2201-000557	C-CERAMIC,DISC;470PF,10%,50V,SL,10.	11407-018-471
DPC60,66	2201-000783	C-CERAMIC,DISC;100NF,+80%,-20%,50V,	11417-104-104
DPC84,85,86	2201-000914	C-CERAMIC,DISC;100PF,10%,1KV	11449-518-101
DPC68	2202-000809	C-CERAMIC,MLC-AXIAL;3.3NF,20%,16V,Y	11447-619-332
DPC46	2202-000825	C-CERAMIC,MLC-AXIAL;680PF,10%,50V,Y	11449-518-681
DPC61	2301-000369	C-FILM,PEF;1.8NF,5%,50V	
DPC19,22,37,38,50,51,16	2301-000375	C-FILM,PEF;100NF,5%,50V,11X12.5X6.5	11505-713-104
DPC7	2301-000383	C-FILM,PEF;10NF,5%,50V,6X7X3.2MM,5M	
DPC56,58,43,45	2301-000389	C-FILM,PEF;150NF,5%,50V,12.5X15X7.5	11505-713-154
DPC27	2301-000415	C-FILM,PEF;22NF,5%,50V,6.5X10.5X4M	
DPC18,21	2301-000475	C-FILM,PEF;8.2NF,5%,50V,6.5X12X3.5	
DPC28	2301-000449	C-FILM,PEF;47NF,10%,50V,8X11X4.5MM,	
DPC69,70	2301-000476	C-FILM,PEF;82NF,10%,50V,10.5X12.5X6	11505-714-823
DPC14,26,10	2401-000325	C-AL;100UF,20%,35V,GP,8*11.5,3.5MM,	11608-105-101
DPC33,32,30,31,47,72,73,74	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
DPC15,23,24	2401-000475	C-AL;10UF,20%,50V,GP,5*11,2MM,	11608-106-100
DPC34,29,67,5	2401-000795	C-AL;220UF,20%,16V,GP,8X11.5,3.5MM,	
DPC63	2401-001080	C-AL;330NF,20%,50V,GP,5*11,2MM,	11608-106-338
DPC11,25,9,8	2401-001552	C-AL;47UF,20%,35V,GP,6.3*11,2.5MM,	11608-105-470
DPC62	2401-001889	C-AL;100NF,20%,50V,GP,5X11MM,2MM,BK	
DPC36,35	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK	
DPC2,3	2401-001942	C-AL;3300UF,20%,35V,GP,18X35.5MM,7.	11607-105-332
DPC53,55,42,40,77L,77R DPC76L,76R,DPC82S DPC81S,79S,80S,82C, DPC81C,79C DPC80C,DPC4,6	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,TP	
DPC54,39,41,71,52,48	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP	
DPC78,75,49	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
DPC57,44	2401-001022	C-AL;3.3UF,20%,50V,GP,5*11.2MM,TP	11608-206-339
DPC59,12S,12C	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,2MM,TP	
DPX1	2802-000192	RESONATOR-CERAMIC;8MHZ,0.5%,BK,10.0	
DPW5	3711-000588	CONNECTOR-HEADER;BOX,10P,1R,2.5MM,S	13349-103-103
DPW4	3711-003108	CONNECTOR-HEADER;BOX,7P,1R,2.5MM,ST	
DPW2	3722-000398	JACK-RCA;3P/2C,3.5MM,SN,BLK,#16~22	A3040-0069
DPW1	3722-001011	JACK-RCA;2P,3.5MM,NI,BLK,-	

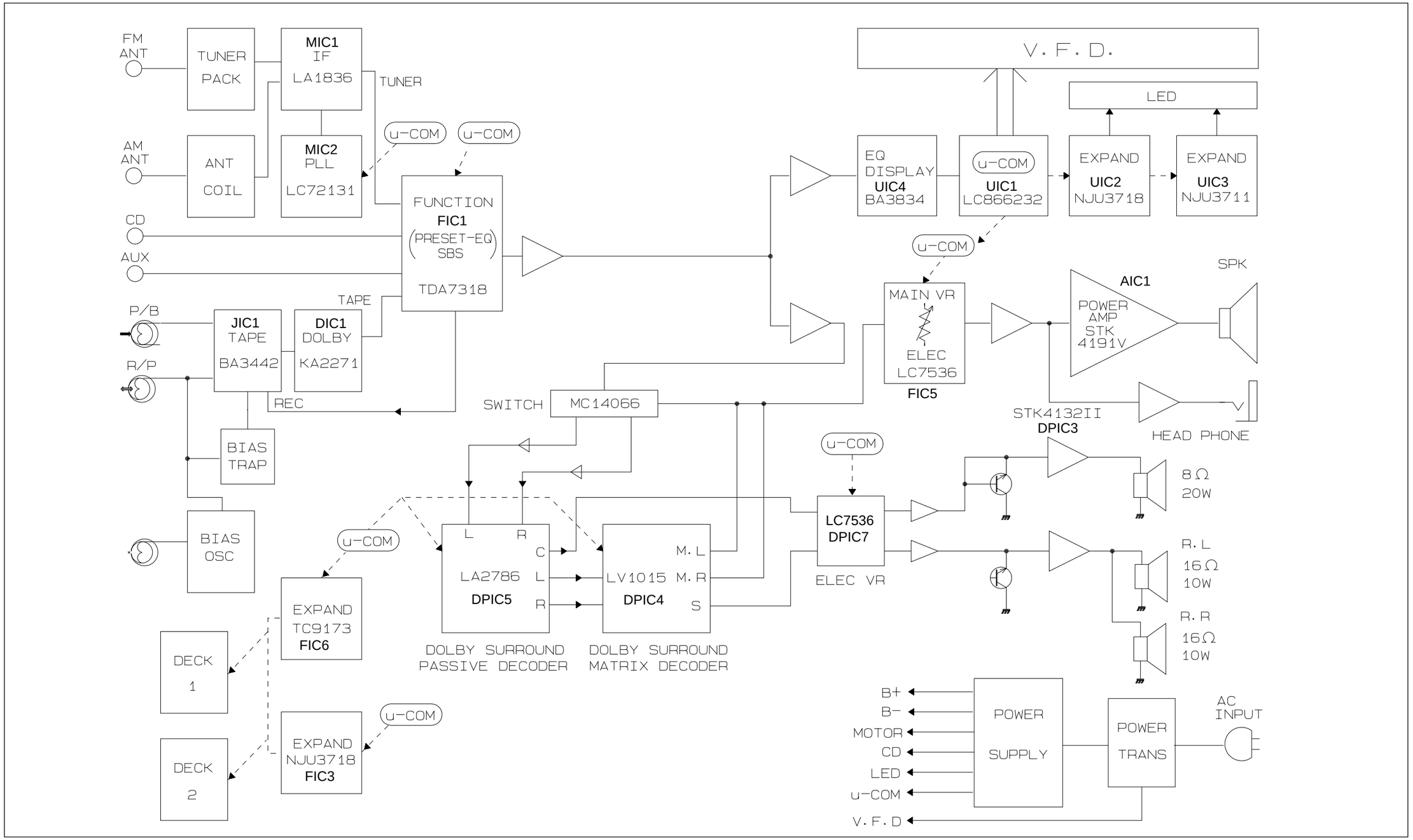
Location No.	New Code No.	Description Specification	Old Code No.
DPR55L,55R	61048-177-333	R-CARBON;RD 1/8 T 333-J	
DPR18,50,16,31	61048-177-563	R-CARBON;RD 1/8 T 563-J	
DPR44L,44R			
DPL1,2	AH27-90001A	COIL-SPRING;,2.2UH,-,-,SPRING	12429-060-030
DPW3	AH39-20559Y	LEAD CONNECTOR-ASSY;-,5264,51088,3P	
H/P MUTE	AH61-40022A	STUD-TAP;SPC1,T0.5,BT2,-,-,	13124-100-710
DPIC1,2	AH62-30061B	HEAT SINK-,S;SCM6500,AL,-,EXTR,BLK,	15684-507-530
DPIC3	AH62-30121A	HEAT SINK-PRO;-,AL,-,T6.0,-,WHT,-,M	
	G3A8-3VI/C	ASSY CD PACK C.K.D;G3A8	
	3809-000169	CABLE-FLAT;30V,80C,150MM,12P,1.25MM	A6032-0068
	A6032-0088	WIRE-PLATE;22/250 UL2896-AP-1.25-22	
	AH90-10346M	ASSY-PCB CD MAIN;G3A8,CKD	
	0202-000152	SOLDER-WIRE FLUX;SV92-8SA,S92,-,92S	10849-740-121
	0202-000155	SOLDER-WIRE FLUX;KR19-RMA S60A,S60A	A0074-0003
ND200,201,202,203	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
NZD101	0403-000361	DIODE-ZENER;UZ6.2BSB,6.2V,5.99-6.24	12169-404-800
NQ1502	0501-000323	TR-SMALL SIGNAL;KSB564Y,PNP,800MW,T	12149-202-050
NQ1501	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO	
NIC9282	0904-000157	IC-DSP;9282,-,QFP,80P,-,16.9344MHZ,	A4012-0291
NIC9258	1003-000179	IC-MOTOR DRIVER;KA9258D,SOP,28P,-,S	
NIC9270	1204-000110	IC-AUDIO FILTER;KA9270,SOP,20P,-,PL	A4012-0089
NIC9220	1204-001041	IC-ASP;KA9220B,QFP,80P,-,PLASTIC,6V	
NR605	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012	11119-101-683
NR606,611,608,609,610	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	11119-101-000
NR47L,47R,104,203,NRD	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
NR106,107	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	11119-101-124
NR41L,41R,204,191,100	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
NR190			
NR103,119	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012	11119-101-154
NR110	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	11119-101-153
NR115	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012	11119-101-184
NR102,109,205,45L,45R	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
NR42L,42R,114	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	11119-101-105
NR40L,40R	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
NR101	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012	11119-101-220
NR43L,43R,200	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	11119-101-273
NR201,202	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332
NR105	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	11119-101-393
NR44L,44R,46L,46R	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
NR117	2007-000898	R-CHIP;430KOHM,5%,1/10W,DA,TP,2012	11119-101-434
NR111,108	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
NR112	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
NR113	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	11119-101-822
NR116	2007-001195	R-CHIP;820KOHM,5%,1/10W,DA,TP,2012	11119-101-824
NR118	2007-001213	R-CHIP;82OHM,1%,1/10W,DA,TP,2012	11119-102-820
NR555	2008-000141	R-FUSIBLE;2.2OHM,5%,1/4W,AA,TP,2.6X	11058-277-229
NVR1701	2103-000007	VR-SEMI;50KOHM,30%,1/10W,SIDE	11249-102-063
NVR1702,1703,1704	2103-000291	VR-SEMI;20KOHM,30%,1/10W,SIDE	11249-102-043

Location No.	New Code No.	Description Specification	Old Code No.
NC119,120,121,107,108 NC603	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5	
NC205,110,116,102,103 43R,44L,500,600,601,602	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201	11129-004-103
NC1000,1001	2203-000363	C-CERAMIC,CHIP;150PF,5%,50V,NPO,201	
NC112	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20	11129-004-222
NC118	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201	
NC113,125,101	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201	11129-001-333
NC100	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
NC204,124	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5	
NC200	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	
NC2000	2203-001026	C-CERAMIC,CHIP;4PF,0.25PF,50V,SL,20	
NC45R,46L	2203-001058	C-CERAMIC,CHIP;560PF,5%,50V,NPO,201	11129-019-561
NC111	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20	11129-004-682
NC115	2203-001137	C-CERAMIC,CHIP;68NF,+80-20%,50V,Y5V	11129-004-683
NC190	2203-001256	C-CERAMIC,CHIP;8PF,0.25PF,50V,NPO,2	
NC109,104,42R,43L	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012	
NC41L,41R	2203-001550	C-CERAMIC,CHIP;1.2NF,10%,50V,X7R,20	
NC201	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20	
NC202,203	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,2012	
NC702,105	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T	11608-152-101
NC114	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
NC703	2401-000778	C-AL;220UF,20%,10V,GP,6.3X11,2.5MM,	11608-102-224
NC700,701	2401-000868	C-AL;220UF,20%,4V,GP,6.3*5,2.5MM,TP	11608-171-221
NC44R,45L,40L,40R,122	2401-001238	C-AL;4.7UF,20%,25V,GP,3*5,1MM,TP	11608-154-479
NC42L	2401-001502	C-AL;47UF,20%,16V,GP,6.3*5,2.5MM,TP	11608-153-470
NC117	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP	
NL100	2703-000002	INDUCTOR-SMD;100UH,10%,2.5X3.2X2MM	11176-600-040
NXF100	2802-000211	RESONATOR-CERAMIC;16.93MHZ,0.5%,TP,	14539-503-083
NS100	3409-000174	SWITCH-LEAF;16VDC,500MA,10GF,SPST	13564-601-100
NCW100	3708-000177	CONNECTOR-FPC/FC/PIC;16P,1.0MM,ANGL	A6010-1523
NCW103	3708-000412	CONNECTOR-FPC/FC/PIC;12P,1.25MM,ANG	A6010-1526
NCW101	3711-001136	CONNECTOR-HEADER;BOX,8P,1R,2MM,ANGL	13349-139-080
	3809-000202	CABLE-FLAT;30V,80C,82MM,16P,1MM,UL2	A6032-0066
NIC05	AC14-12001G	IC;KA78L05,T,-	
	AH62-30047A	HEAT SINK;ETHD,-,T0.5,-,-,-,MAX-555	11124-0061-00
	AH63-40017A	SHIELD-PLATE;SPTE,T0.3,-,MM-77,-,	12074-0024-00
	AH90-10719E	ASSY-PCB;G3A8-3VI/C,NEW	
SZD1	0403-000352	DIODE-ZENER;UZ4.7BM,4.7V,4.4-5.0V,5	12169-403-200
SZD2	0403-000361	DIODE-ZENER;UZ6.2BSB,6.2V,5.99-6.24	12169-404-800
SIC1,2	1003-000298	IC-MOTOR DRIVER;LB1641,SIP,10P,-,-	
SR4	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.	11018-377-101
SR1,2,5	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
SR3	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
SC5,6,7	2201-000163	C-CERAMIC,DISC;10NF,+80-20%,50V,Y5V	11417-344-103
SC1,2,3,4	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5	
SC11	2401-000240	C-AL;100UF,20%,10V,GP,6*11MM,5MM,TP	11608-102-104
SC8,9	2401-000795	C-AL;220UF,20%,16V,GP,8X11.5,3.5MM,	
SC10	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK	
SL1	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM	12429-211-330

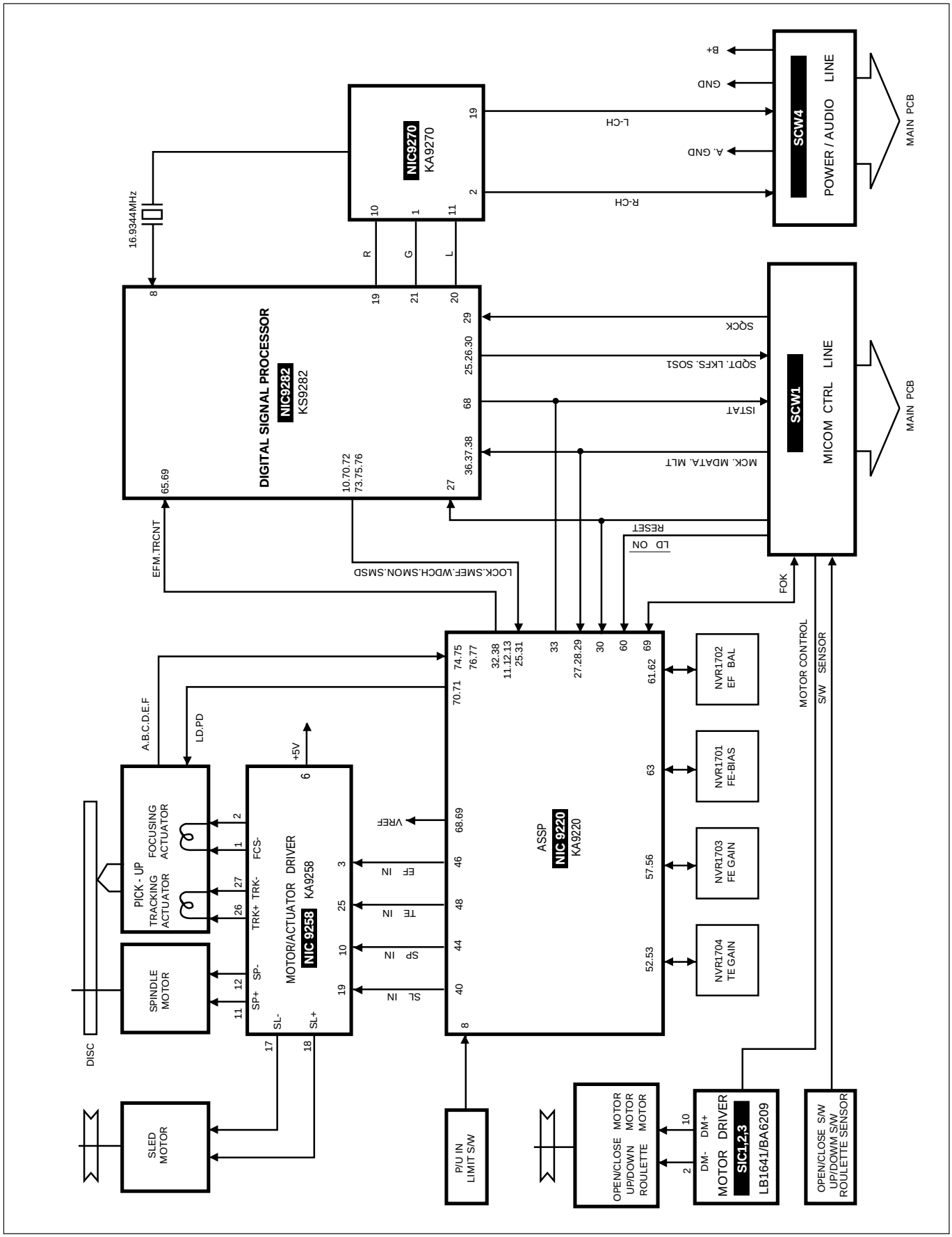
Location No.	New Code No.	Description Specification	Old Code No.
SCW2	3708-000507	CONNECTOR-FPC/FC/PIC;12P,1.25MM,ANG	
	3708-001131	CONNECTOR-FPC/FC/PIC;5P,1.25MM,STRA	
SCW1	3711-002579	CONNECTOR-HEADER;WALL,22P,1R,2.5MM,	
	3711-003379	CONNECTOR-HEADER;NOWALL,3P,1R,2.5MM	
SIC3	AC14-12001G	IC;KA78L05,T,-	
SCW4	AH39-20025S	LEAD-CONNECTOR,ASSY;-,51004-08,3502	16439-0291-00
SCW3	AH39-20025T	LEAD-CONNECTOR,ASSY;-,51004-08,3502	16439-0292-00

9. Block Diagrams

9-1 Main



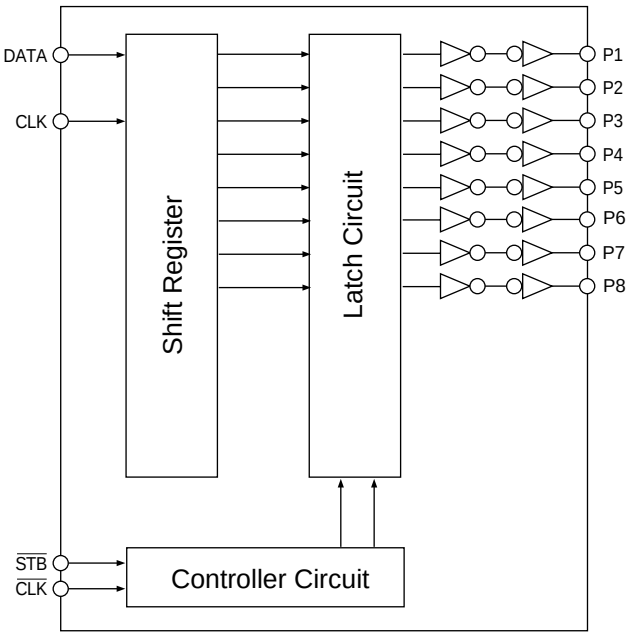
9-2 CD


B+
GND
A. GND
L-CH
R-CH
SCW4
POWER / AUDIO LINE
MAIN PCB
NIC9270
KA9270
16.9344MHz
R
G
L
DIGITAL SIGNAL PROCESSOR
NIC9282
KS9282
SQCK
SQDT. LKFS. SOS1
ISTAT
MCK. MDATA. MLT
SCW1
MICOM CTRL LINE
MAIN PCB
RESET
LD ON
FOK
EFM.TRCNT
LOCK.SMEF.WDCH.SMON.SMSD
MOTOR CONTROL
S/W SENSOR
A.B.C.D.E.F
LD.PD
+5V
VREF
ASSP
NIC 9220
KA9220
NVR1702
EF BAL
NVR1701
FE-BIAS
NVR1703
FE GAIN
NVR1704
TE GAIN
PICK - UP
TRACKING ACTUATOR
FOCUSING ACTUATOR
MOTOR/ACTUATOR DRIVER
NIC 9258
KA9258
FCS-
TRK+ TRK-
SP+ SP-
SL+ SL-
FE IN
TE IN
SP IN
SL IN
SPINDLE MOTOR
SLED MOTOR
DISC
P/U IN
LIMIT S/W
OPEN/CLOSE MOTOR
UP/DOWN MOTOR
ROULETTE
MOTOR DRIVER
SIC1213
LB1641/BA6209
DM+
DM-
OPEN/CLOSE S/W
UP/DOWN S/W
ROULETTE SENSOR

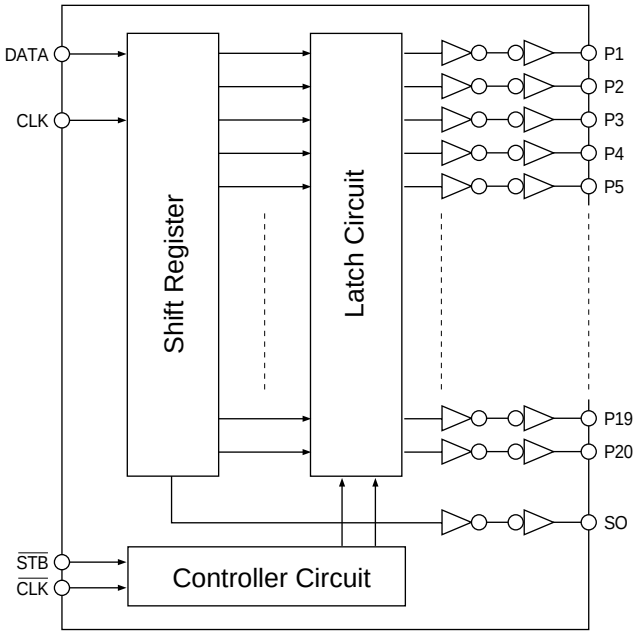
9-3 IC & TR Internal Diagrams

9-3-1 Main

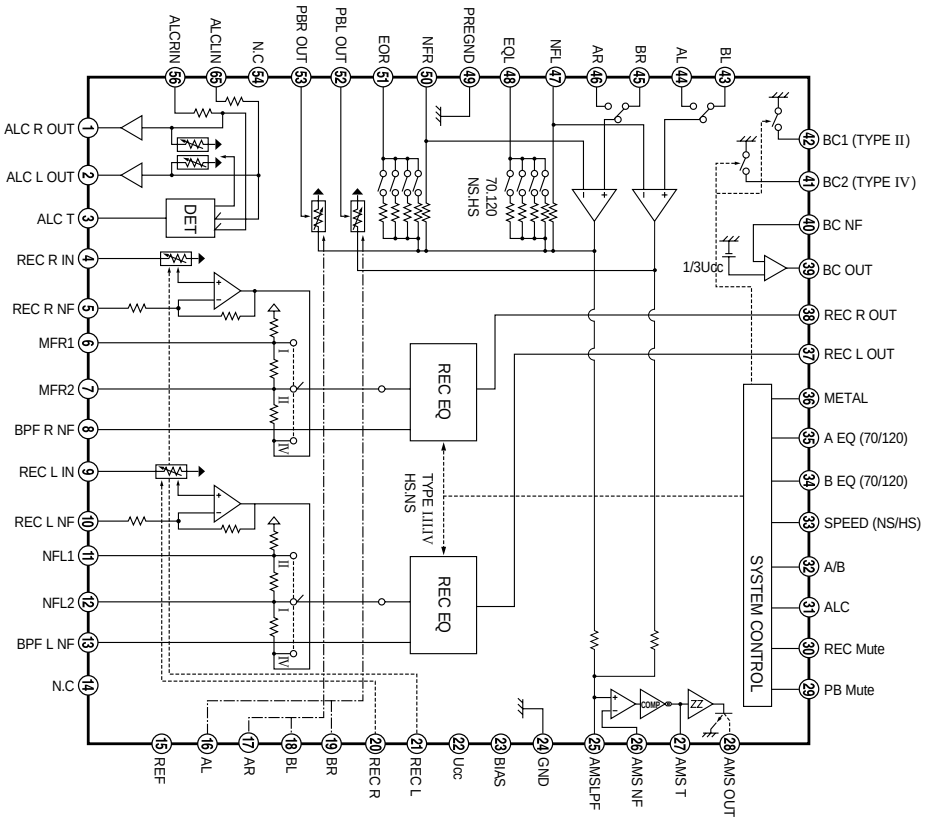
NJU3711 : UIC3



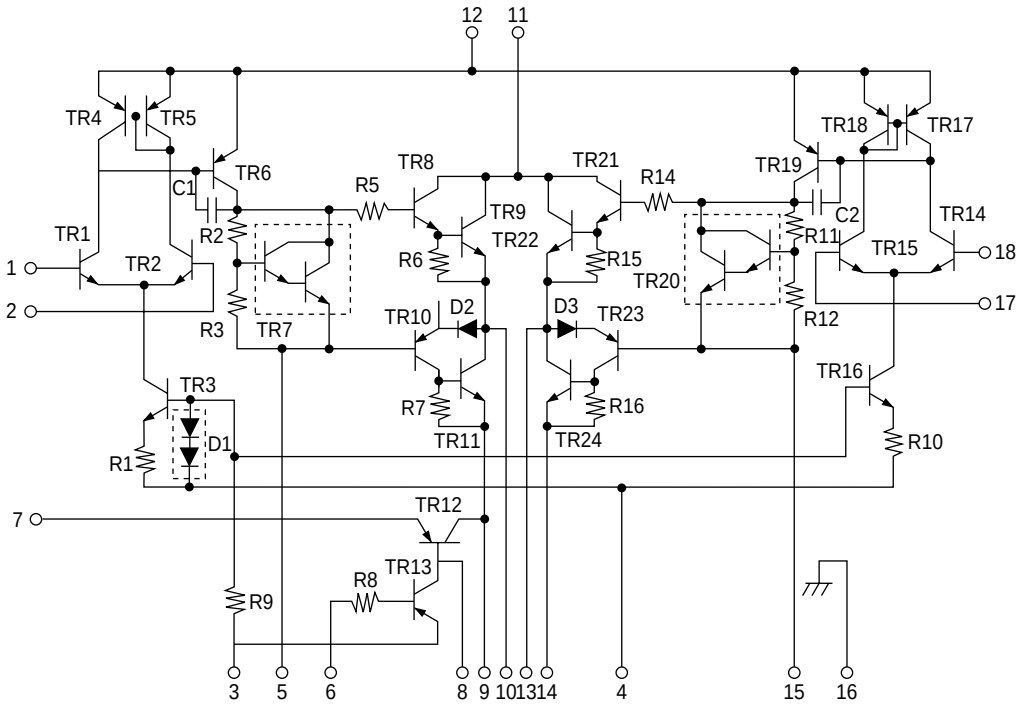
NJU3718 : UIC2,FIC3



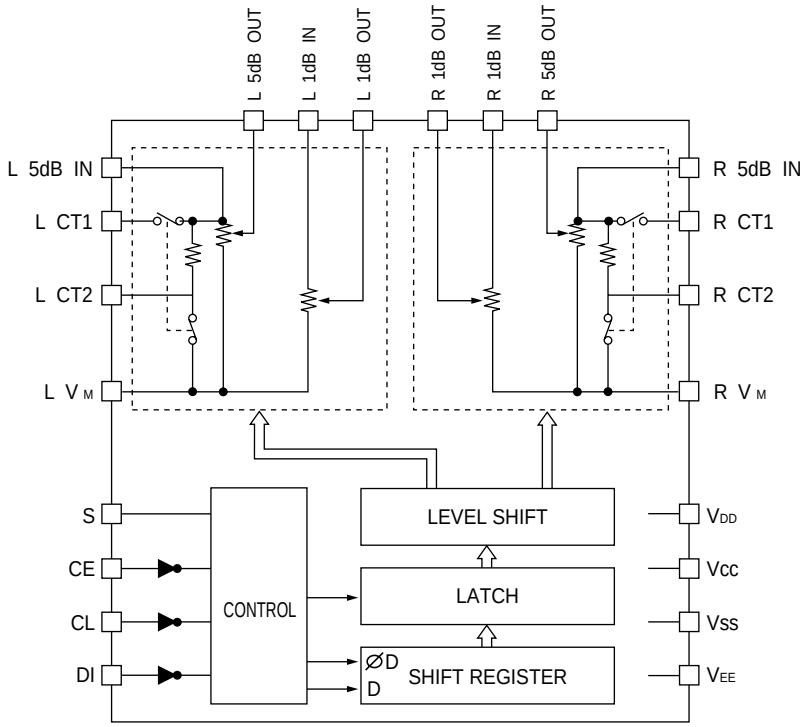
BA3442AKS : JIC1



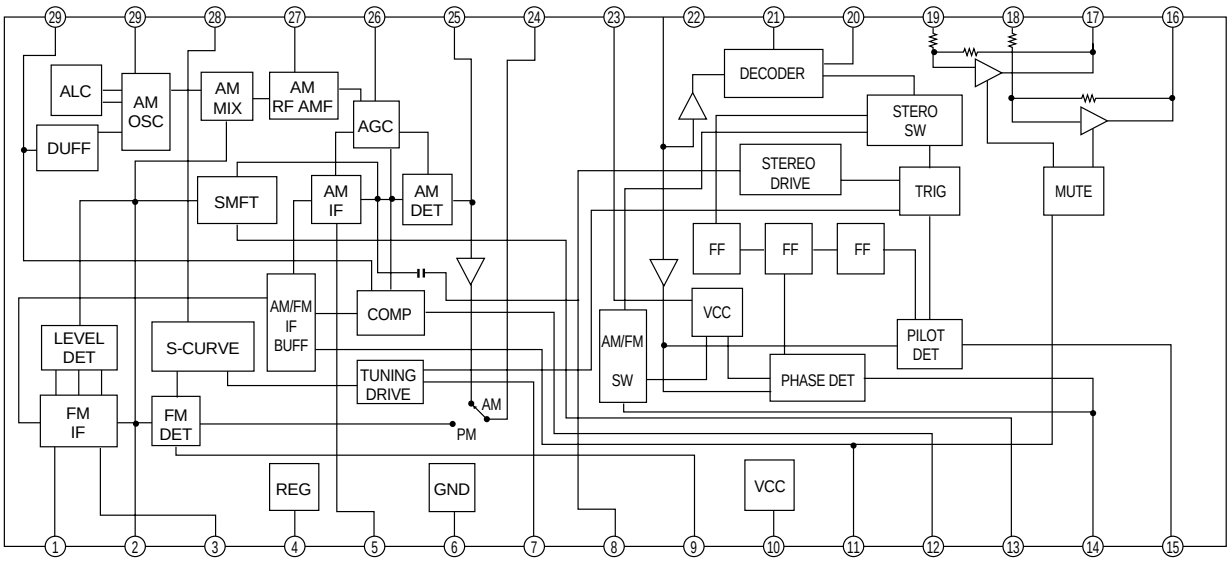
STK4191V : AIC1



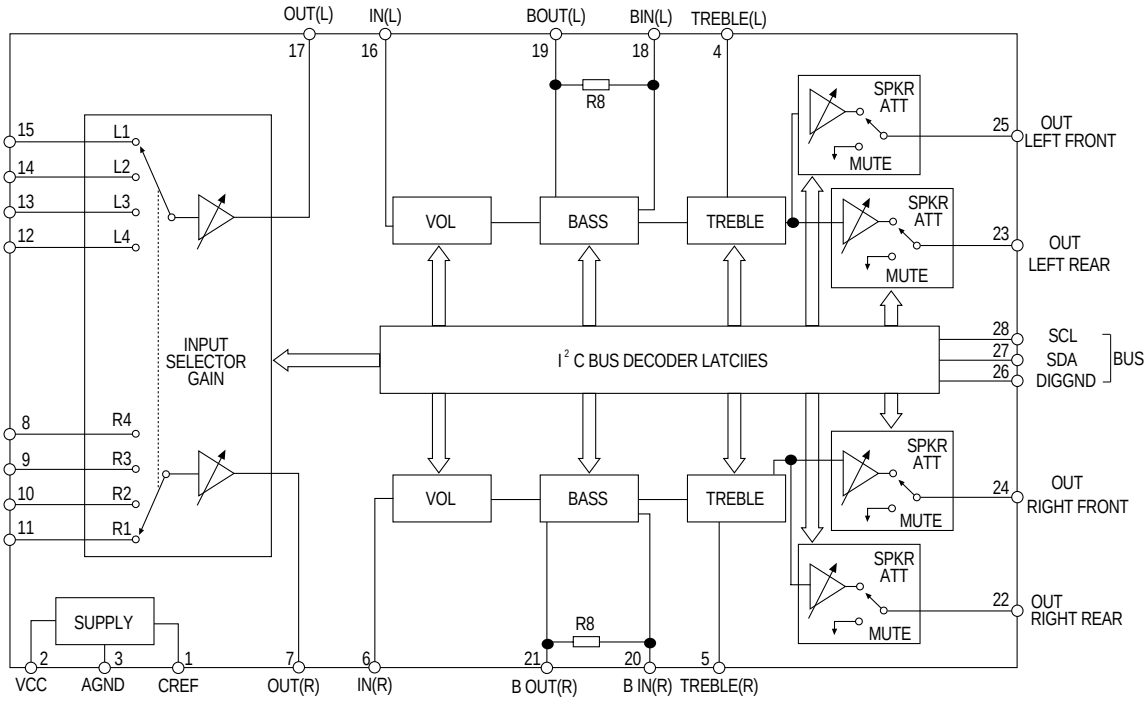
LC7536 : FIC5



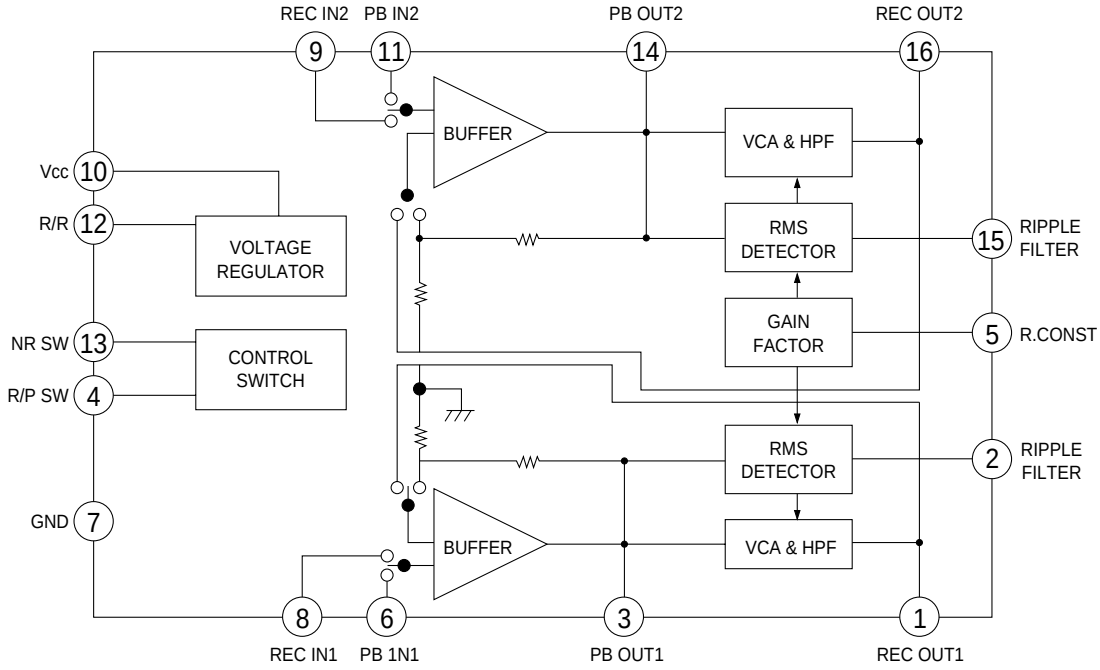
LA1836 : MIC1



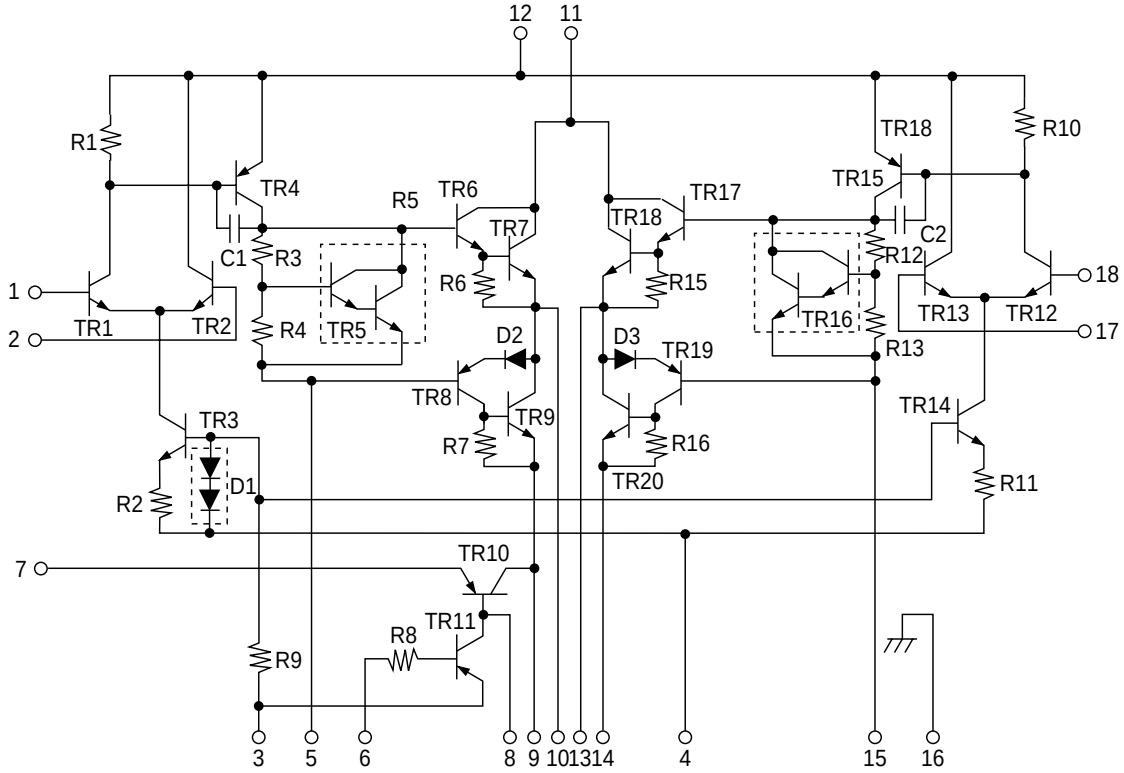
TDA7318 : FIC1



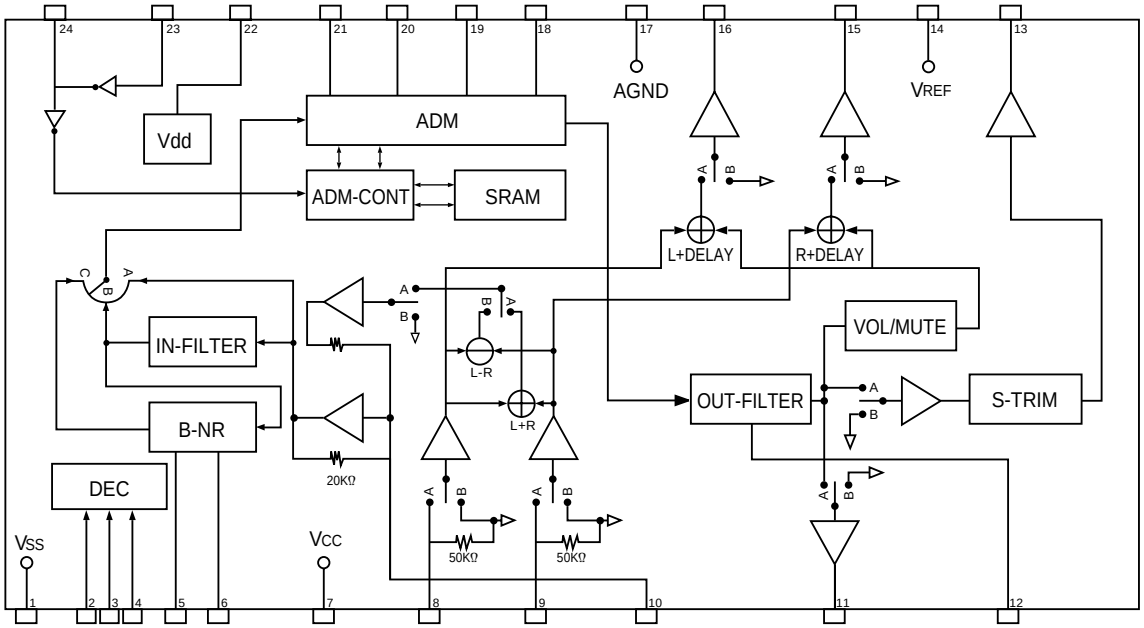
KA2271B : DIC1



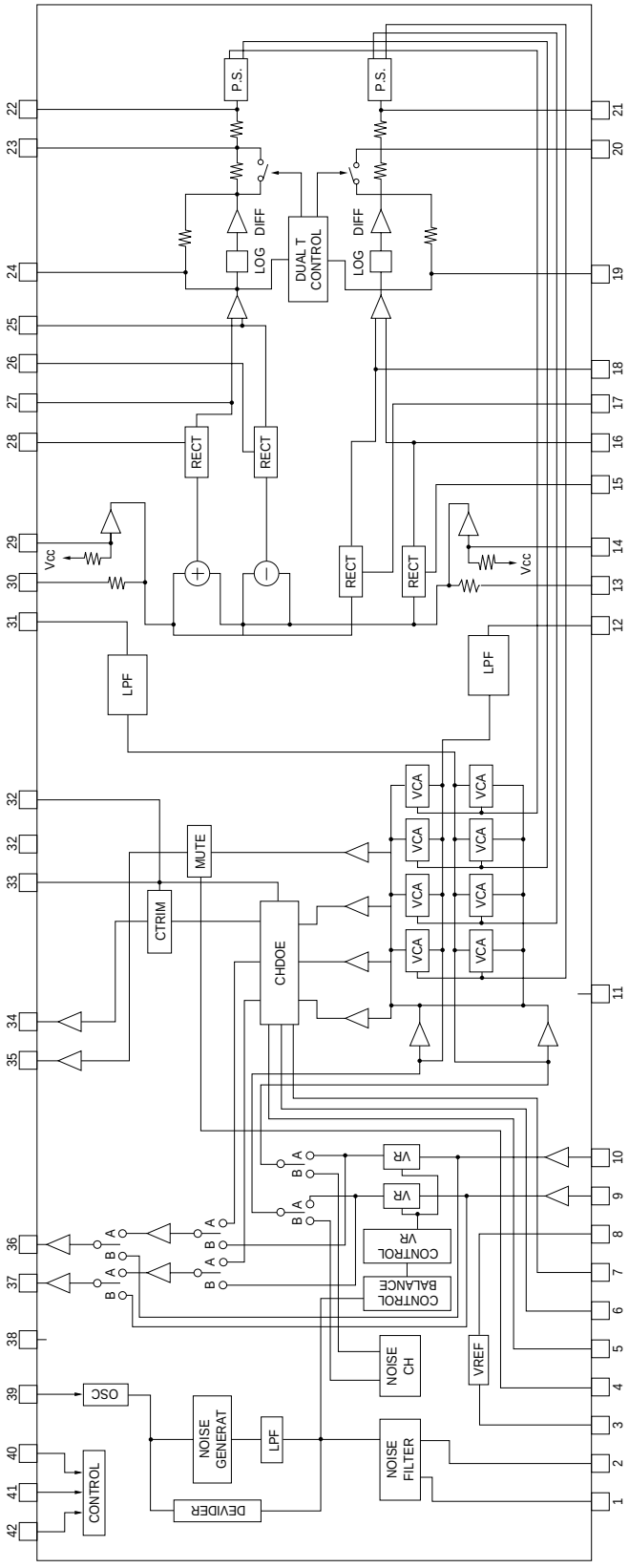
STK4132II: DPIC3



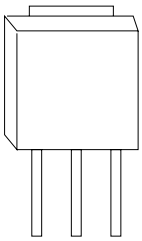
LV1015: DPIC4



LA2786: DPIC5



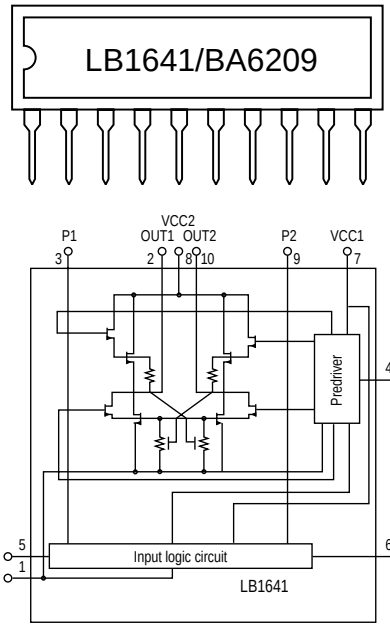
9-3-2 CD



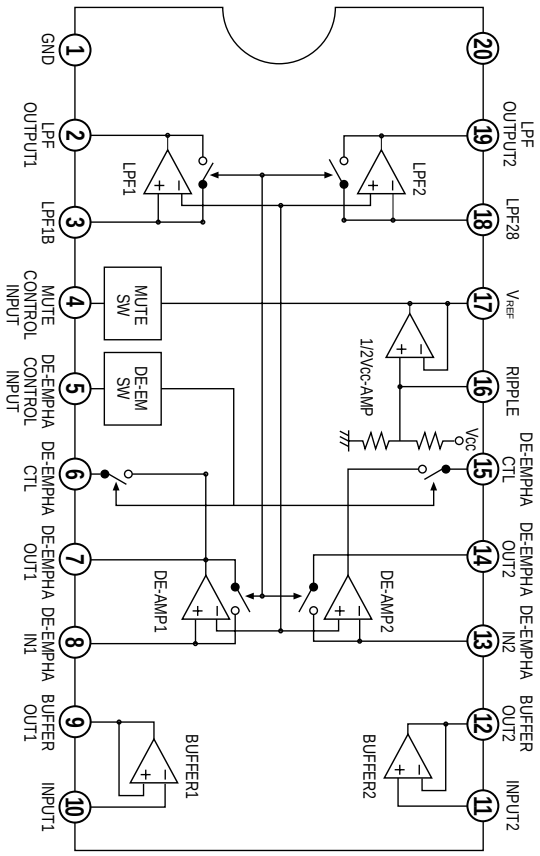
TR	1	2	3
KSR1003 A928	E	C	B

* NOTE : KSB564 = 'EBC' TYPE

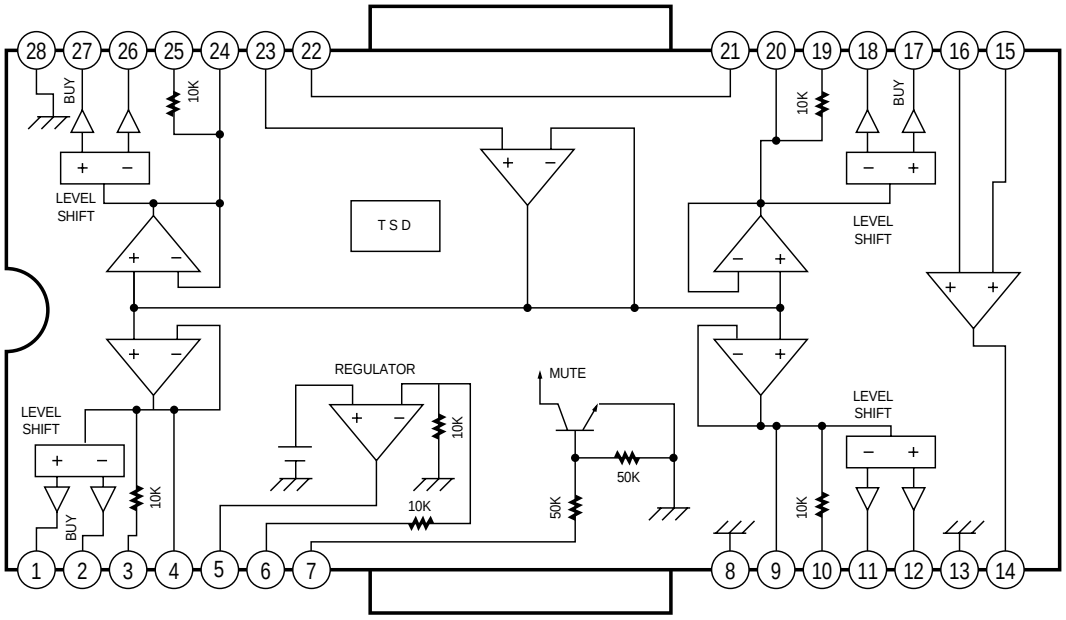
LB1641/BA6209(MOTOR DRIVER) : SIC1,SIC2,SIC3,NIC1641



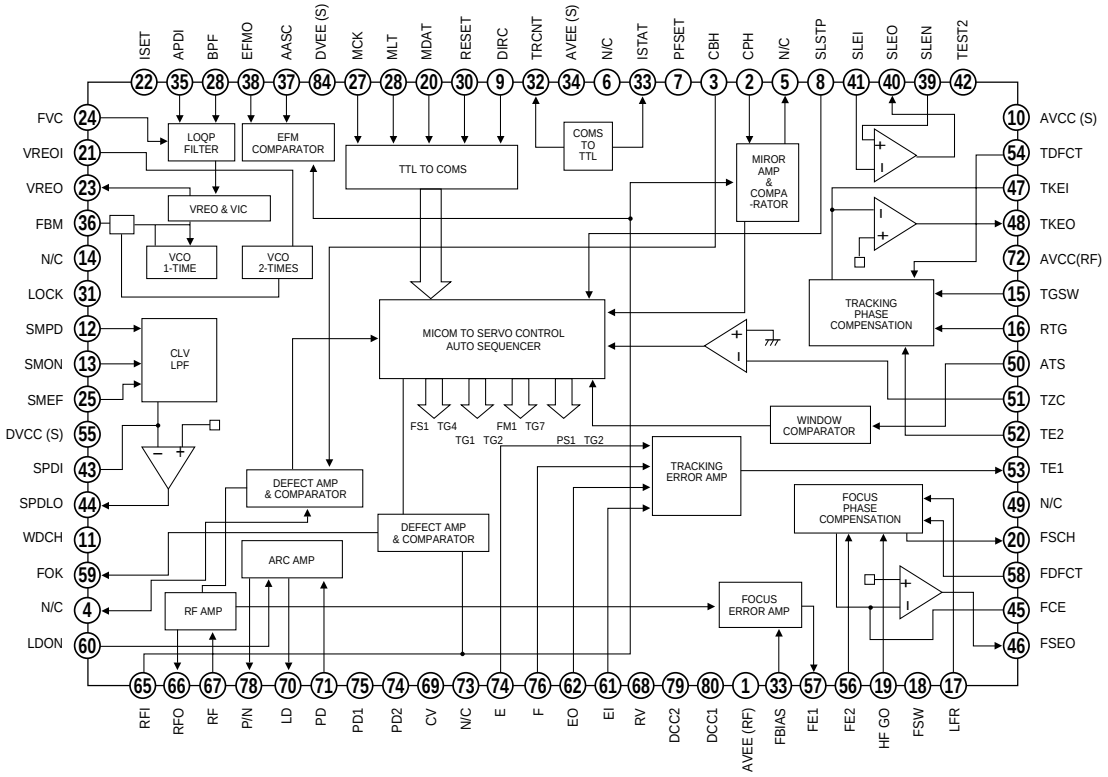
KA9270 : NIC9270



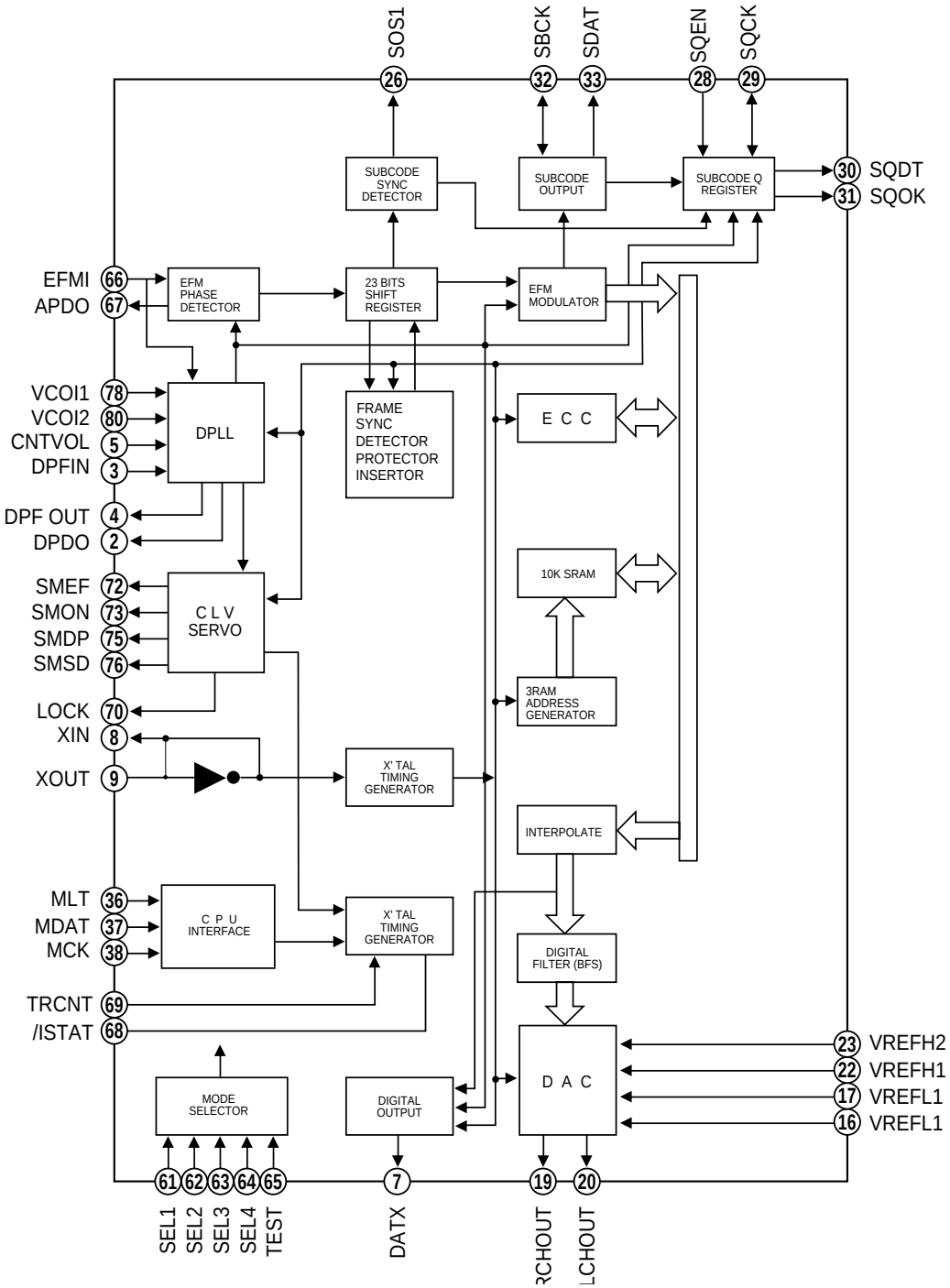
KA9258 : NIC9258



KA9220(ASSP) : NIC9220



KS9282(DSP) : NIC9282



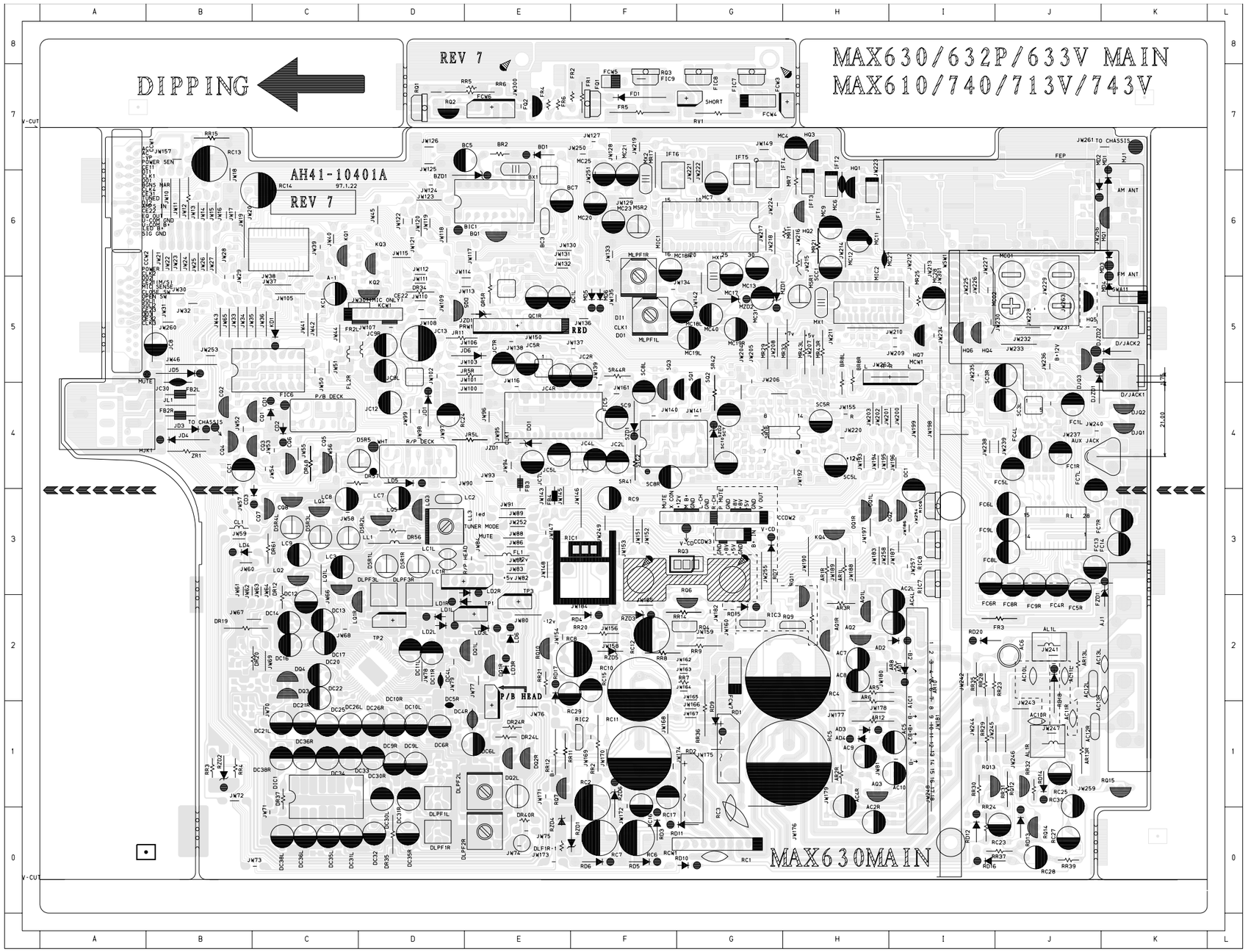
9-4 µ-COM : UIC1

No.	Port	Name	I/O	Function
1	P5 2	POWER	O	M65846(DSP+ECHO) LATCH
2	PWM1	CE 22	O	LC7536(VOLUME IC)CE
3	P2 0	AMPSIN	I	AMPS SIGNAL IN
4	1	INPUT EXP.DI	I	MAIN AUDIO MUTE(TUNER)
5	2	POWER	O	TUNED
6	3	CLK4	I	MSM6654(RELAX) CLOCK
7	4	DO 1	O	LC72321,TDA7318,LC7236
8	5	CLK 1		LC72321,TDA7318,LC7236
9	6	DI 1		LC72321 DATA INPUT
10	7	CE 11		LC72321(PLL) CE
11	TEST			
12	RES			
13	XT 1			
14	XT 2			
15	VSS			
16	CF 1			
17	CF 2			
18	VDD			
19	P8 0	KEY 1	I	A/D KEY INPUT 1
20	1	KEY 2	I	A/D KEY INPUT 2
21	2	KEY 3	I	A/D KEY INPUT 3
22	3	KEY 4	I	A/D KEY INPUT4
23	4	JOG 21	I	MULTI JOG IN
24	5	JOG 22	I	MULTI JOG IN
25	6	NAR	I	BGNS NAR
26	7	EQ IN	I	EQUALIZER INPUT
27	P7 0	SCRO	I	SCOR INTERRUPT
28	1	T SENS	I	CD TRAY SENSE
29	2	SCOR	I	POWER SENSE
30	3	REMO	I	REMOCON INPUT
31	S 0			
32	1			
33	2			
34	3			
35	4			
36	5			
37	6			
38	7			
39	8			
40	9			
41	10			
42	11			
43	12			
44	13			
45	14			
46	15			
47	VDVP			
48	V			
49	S 16			
50	17			

No.	Port	Name	I/O	Function
51	S 18			
52	19			
53	20			
54	21			
55	22			
56	23			
57	24			
58	25			
59	26			
60	27			
61	28			
62	29			
63	30			
64	31			
65	P0 0	OPTION	I	TUNER,CD/VIDEO-CD
66	1	UD S/W	I	V10 UP UP/DOWN S/W
67	2	FOK	I	FOCUS OK
68	3	LKFS	I	GFS
69	4	MLT	O	DSP/SSP CONTROL LATCH
70	5	MDATA	O	DSP/SSP CONTROL DATA
71	6	MCK	O	DSP/SSP CONTROL CLOCK
72	7	V10M -	O	V10 DOWN MOTOR
73	P1 0	V10M +	O	V10 UP MOTOR
74	1	SUBQ	I	SUB Q DATA INPUT
75	2	SQCK	O	SUB Q DATA INPUT CLOCK
76	3	DSP MT	O	DSP MUTE
77	4	OPEN M	O	CD OPEN MOTOR
78	5	CLOSE M	O	CD CLOSE MOTOR
79	6	ROUL -	O	ROULETTE MOTOR -
80	7	ROUL +	O	ROULETTE MOTOR +
81	P3 0	ISTAT	O	SENSE
82	1	LD_XRS	O	LD ON + XRST
83	2	JOG 11	I	JOG VOLUME1
84	3	JOG 12	I	JOG VOLUME 2
85	4	SLATCH	O	LATCH(PRO LOGIC ◄— MAIN)
86	5	SDATA	O	DATA(PRO LOGIC ◄— MAIN)
87	6	VCLK	I	CLOCK(PRO LOGIC —► MAIN)
88	7	CE 32	O	NJU3718(OUTPUT EXPAND) CE
89	VSS			
90	VDD			
91	P4 0	DO 3	O	NJU3718 DATA OUTPUT
92	1	CLK 3	O	NJU3718 CLOCK
93	2	CE 31	O	NJU3718(OUTPUT) CE
94	3	CE 23	O	TC9173(INPUT EXPAND)CE
95	4	SOL 1	O	1 DECK SOLENOID
96	5	SOL 2	I	2 DECK SOLENOID
97	6	MICSNS	I	MIC INPUT SENSE
98	7	CE 21	O	M65840(KEY CON) LATCH / ST
99	P5 0	DO 2	O	M65840,65846,MSM6654,TC9173
100	1	CLK 2	O	M65840,M65846,TC9173

10 PCB Diagrams

10-1 Main



PCB Diagrams

*** RESISTOR ***

X (H2)
AR10 (I1)
AR12 (H1)
AR13L (J2)
AR13R (J1)
AR1L (H3)
AR1R (H3)
AR2R (H1)
AR3R (H2)
AR5 (H2)
AR6 (H1)
AR8 (I2)
BR2 (E7)
BR8L (H4)
BR8R (H4)
DC4R (E1)
DR12 (C2)
DR19 (B2)
DR20 (C2)
DR24L (E1)
DR24R (E1)
DR34 (D5)
DR35 (D0)
DR37 (C0)
DR40R (E0)
DR48 (C4)
DR56 (D3)
DR57 (C4)
DR61 (C3)
FR1 (F7)
FR2 (F7)
FR3 (I2)
FR4 (E7)
FR5 (F7)
FR6 (E7)
JR11 (D5)
JR5L (D4)
JR5R (D5)
JW13 (B6)
KD3 (D6)
MR11 (H6)
MR21 (H6)
MR25 (I5)
MR29 (G5)
MR33 (H5)
MR43L (H5)
MR43R (H5)
MR7 (H6)
QR5R (E5)
RR11 (E1)
RR12 (E1)
RR14 (F2)
RR15 (B7)
RR2 (F1)
RR20 (F2)
RR21 (E2)
RR23 (I1)
RR24 (I0)
RR28 (I1)
RR29 (I1)
RR3 (B1)
RR30 (I1)
RR31 (J1)
RR32 (J1)
RR35 (I1)
RR36 (G1)
RR37 (I0)
RR39 (J0)
RR4 (B1)
RR5 (E7)
RR6 (E7)
RR7 (F2)
RR8 (F2)
RR9 (F2)
RV1 (G7)
SR16 (G4)
SR41 (F4)
SR42 (G4)
SR44R (F5)
ZR1 (B4)

*** CONDENSER ***

AC10 (H1)
AC10L (J2)
AC10R (J1)
AC11L (J2)
AC11R (J1)
AC12L (J2)
AC12R (J1)
AC13L (K2)
AC13R (K1)
AC2L (H2)
AC2R (H0)
AC4L (H2)
AC4R (H1)
AC5 (I1)
AC6 (J2)
AC7 (H2)
AC8 (H2)
AC9 (H1)
BC3 (E6)
BC5 (E7)
BC7 (E6)
CC1 (B4)
DC10L (D1)
DC10R (D1)
DC11L (D2)
DC11R (D2)
DC12 (C3)
DC13 (C2)
DC14 (C2)
DC16 (C2)
DC17 (C2)
DC20 (C2)
DC21L (C1)
DC21R (C1)
DC22 (C2)
DC25 (C1)
DC26L (C1)
DC26R (D1)
DC30L (D0)
DC30R (D1)
DC31L (C0)
DC31R (D0)
DC32 (D0)
DC33 (C1)
DC34 (C1)
DC35L (C0)
DC35R (D0)
DC36L (C0)
DC36R (C1)
DC38L (C0)
DC38R (C1)
DC4L (D2)
DC5R (D1)
DC6L (E1)
DC6R (D1)
DC9L (D1)
DC9R (D1)
FC13 (J3)
FC14 (K3)
FC1L (J4)
FC1R (J4)
FC4L (J4)
FC4R (J3)
FC5L (J4)
FC5R (J3)
FC6L (J3)
FC6R (I3)
FC7L (J3)
FC7R (K3)
FC8L (J3)
FC8R (J3)
FC9L (J3)
FC9R (J3)
JC12 (D4)
JC13 (D5)
JC2L (F4)
JC2R (F5)
JC30 (B5)
JC4L (F4)
JC4R (E5)
JC5L (E4)
JC5R (E5)
JC7L (E4)
JC7R (E5)
JC8 (B5)
JC9L (D5)
JC9R (D5)
KC1 (C5)
LC1L (D3)
LC1R (D3)
LC2 (D3)
LC3 (C3)
LC7 (D3)
LC8 (C3)
LC9 (C3)
LL1 (D3)
MC11 (H6)
MC12 (H6)
MC13 (G6)
MC17 (G6)
MC18L (G5)
MC18R (F6)
MC19L (G5)
MC19R (G5)
MC20 (F6)
MC21 (F7)
MC23 (F6)
MC25 (F7)
MC27 (H6)
MC28 (I5)
MC31 (G5)
MC4 (H7)
MC40 (G5)
MC6 (H6)
MC7 (G6)
MC9 (H6)
OC1 (I3)
QC1L (E5)
QC1R (E5)
RC1 (G0)
RC10 (F2)
RC11 (F1)
RC12 (F2)
RC13 (B7)
RC14 (B6)
RC15 (F2)
RC16 (F1)
RC17 (F1)
RC2 (F1)
RC23 (J0)
RC24 (D4)
RC25 (J1)
RC27 (J0)
RC28 (J0)
RC29 (E2)
RC3 (G0)
RC30 (J1)
RC4 (H2)
RC5 (H1)
RC6 (F0)
RC7 (F0)
RC8 (E2)
RC9 (F3)
SC10 (G4)
SC3L (J4)
SC3R (J5)
SC5L (H4)
SC5R (H4)
SC7 (G4)
SC8L (F4)
SC8R (G4)
SC9 (F4)
SCC1 (H6)

*** DIODE ***

AD1 (I2)
AD2 (I2)
AD3 (H1)
AD4 (H1)
BD1 (E7)
BZD1 (E6)
CD1 (C4)
CD2 (C4)
CD3 (C3)
DJZD1 (J5)
DJZD2 (J5)
FD1 (F7)
FZD1 (K3)
JD1 (D4)
JD3 (B4)
JD4 (B4)
JD5 (B5)
JD6 (E5)
JZD1 (E4)
JZD1 (E5)
KD1 (C5)
LD1L (D2)
LD1R (D2)
LD2L (D2)
LD2R (E3)
LD3L (E2)
LD3R (E2)
LD4 (B3)
LD5 (D4)
LD6 (E2)
MD1 (K7)
MD2 (J6)
MD3 (K6)
MD4 (K6)
MD5 (F5)
MD6 (F5)
MZD1 (G5)
MZD2 (G5)
RD10 (G0)
RD11 (F0)
RD12 (I0)
RD13 (J0)
RD14 (J1)
RD15 (G2)
RD16 (I0)
RD17 (E2)
RD18 (J2)
RD20 (I2)
RD3 (F0)
RD4 (F2)
RD5 (F0)
RD6 (F0)
RD7 (G3)
RZD1 (F0)
RZD2 (B1)
RZD3 (F2)
RZD5 (F2)
RZD6 (F1)
SZD1 (F4)
SZD2 (G4)

*** TR ***

AQ1L (H2)
AQ1R (H2)
AQ2 (H2)
AQ3 (H1)
BQ1 (E6)
CQ1 (C4)
CQ2 (B4)
CQ3 (C4)
CQ4 (B4)
CQ5 (C4)
CQ6 (C4)
CQ7 (C3)
CQ8 (C3)
DJQ1 (K4)
DJQ2 (K4)
DJQ3 (J5)
DQ1L (E2)
DQ1R (E2)
DQ2L (E1)
DQ2R (E1)
DQ3 (C2)
DQ4 (C2)
DQ5 (D5)
FQ2 (E7)
HQ1 (H6)
HQ2 (H6)
HQ3 (H7)
HQ4 (I5)
HQ5 (J5)
HQ6 (I5)
HQ7 (I5)
KQ1 (C6)
KQ2 (D5)
KQ3 (D6)
KQ4 (H3)
LQ1L (C3)
LQ1R (D2)
LQ2 (C3)
LQ3 (D3)
LQ4 (C3)
LQ5 (D3)
MQ1 (K6)
OQ1L (H3)
OQ1R (H3)
OQ2 (I3)
RIC2 (F1)
RIC3 (G2)
RQ10 (E2)
RQ11 (H3)
RQ12 (J1)
RQ13 (I1)
RQ14 (J0)
RQ15 (K1)
RQ2 (D7)
RQ6 (G2)
RQ7 (E1)
RQ9 (H2)
SQ1 (G4)
SQ2 (G4)
SQ3 (F4)

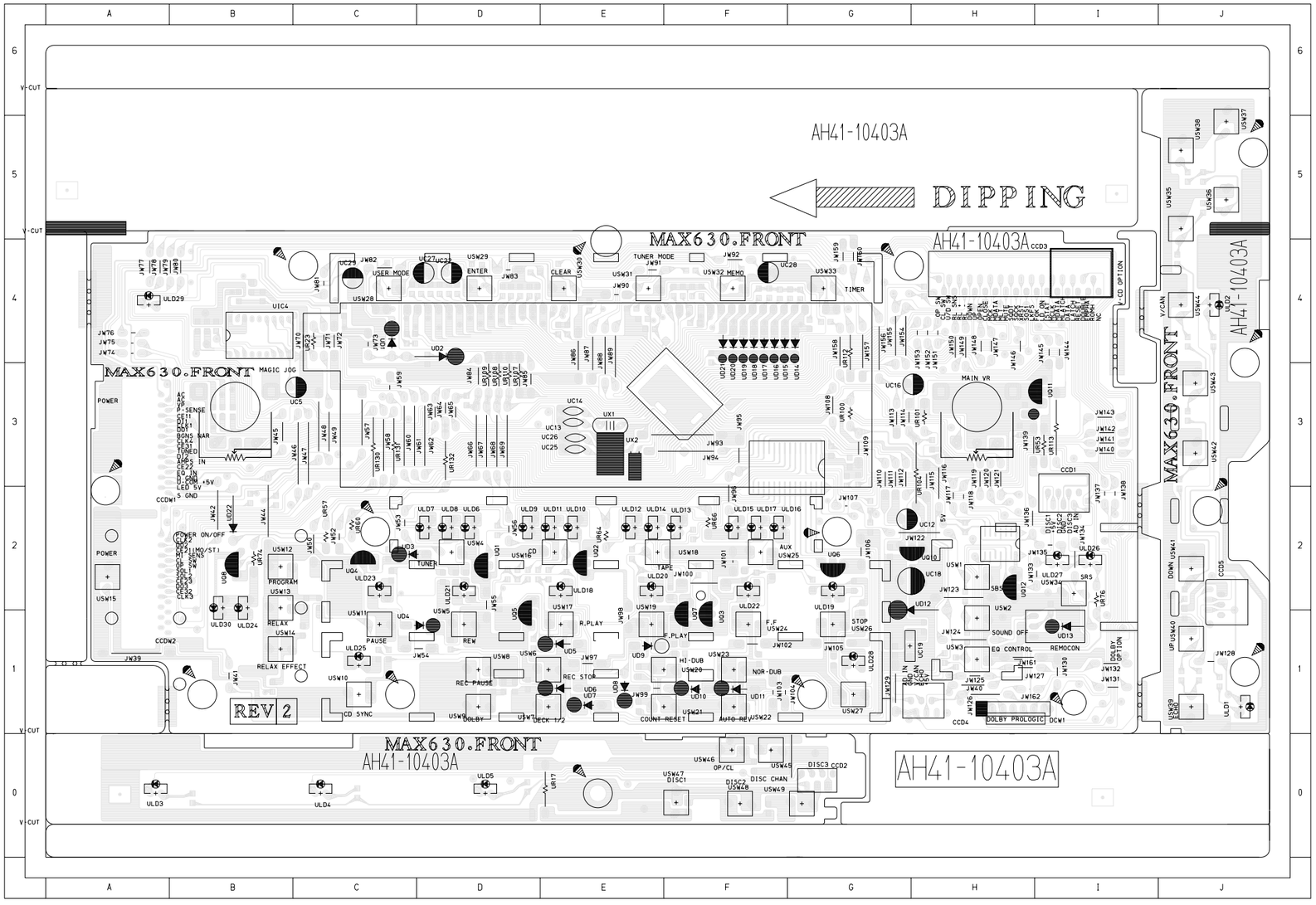
*** IC&WAFER ***

X (E1)
CCDW2 (G3)
CCDW3 (G3)
DIC1 (C0)
DLPF1L (D1)
DLPF1R (D0)
DLPF3L (D3)
DLPF3R (D3)
FCW3 (H7)
FCW4 (G7)
FCW5 (F7)
FCW6 (E7)
FCW7 (G2)
IFT4 (G7)
IFT5 (G6)
IFT6 (F7)
KCW1 (D5)
MCW1 (I5)
PRW1 (E5)
R/P HEAD (D3)
RCW1 (G0)
SHORT (G7)
SWA11 (K5)
TP1 (E2)
TP2 (D2)
TP3 (E2)

*** CHIP ***

AC14L (I2)
AC14R (I1)
AC3L (H3)
AC3R (H0)
AR11L (I2)
AR11R (I0)
AR14 (I1)
AR15 (H1)
AR2L (H2)
AR30 (H1)
AR31 (H2)
AR3L (H2)
AR4L (I2)
AR4R (I0)
AR5L (H3)
AR5R (H0)
AR7 (I2)
AR9L (I2)
AR9R (I1)
BC1 (E7)
BC2 (E7)
BC4 (E6)
BC6 (E6)
B1C2 (E6)
B1C3 (I4)
BR1 (E6)
BR10L (I4)
BR10R (I5)
BR11 (H4)
BR3 (E6)
BR4 (E6)
BR5 (E6)
BR6 (E6)
BR7L (H5)
BR7R (H4)
BR9L (I4)
BR9R (I5)
CC4 (C4)
CR1L (H3)
CR1R (H3)
CR2L (J3)
CR2R (I3)
CR3L (J3)
CR3R (J3)
DC15 (C2)
DC18 (B2)
DC19 (B2)
DC1L (D2)
DC1R (E2)
DC23 (C2)
DC24 (C2)
DC2L (D2)
DC2R (E2)
DC39L (B2)
DC39R (B1)
DC40L (C0)
DC40R (D0)
DC41 (D4)
DC43 (C4)
DC44 (C4)
DC45L (D2)
DC45R (E1)
DC46L (E1)
DC46R (D0)
DC47L (D1)
DC47R (D0)
DC5L (E1)
DC7L (D1)
DC7R (D1)
DJR1 (J5)
DJR2 (J5)
DR10L (B2)
DR10R (B1)
DR11L (D2)
DR11R (D2)
DR13 (E2)
DR14 (C2)
DR15 (E2)
DR16 (B5)
DR17 (C2)
DR18 (C2)
DR1L (D2)
DR1R (E2)
DR21 (B2)
DR22 (B2)
DR23 (B2)
DR25 (C0)
DR26 (C0)
DR27 (C0)
DR28 (C0)
DR29 (C1)
DR2L (D1)
DR2R (D1)
DR30L (C0)
DR30R (D0)
DR31L (C0)
DR31R (C1)
DR32L (C0)
DR32R (D0)
DR33L (D1)
DR33R (D1)
DR36 (C1)
DR38 (D1)
DR39 (D5)
DR3L (D1)
DR3R (D1)
DR40L (E1)
DR41L (E1)
DR41R (E0)
DR42 (C5)
DR43 (C5)
DR44 (C5)
DR45 (C4)
DR46 (C4)
DR47 (D4)
DR49 (B4)
DR4L (D1)
DR4R (D1)
DR50 (C5)
DR51 (C5)
DR52 (C5)
DR53 (B4)
DR54 (B4)
DR55 (D4)
DR58 (D3)
DR59 (B4)
DR5L (D1)
DR5R (D0)
DR60 (C2)
DR62 (D3)
DR63 (C5)
DR64 (B5)
DR65 (B5)
DR66 (C5)
DR67 (C5)
DR68 (C5)
DR6L (E1)
DR6R (D1)
DR7 (C1)
DR70 (C5)
DR71L (C1)
DR71R (D1)
DR7L (D2)
DR7R (D2)
DR8 (D0)
DR9L (C2)
DR9R (B1)
DSR6 (C4)
FC11 (J3)
FC12 (J3)
FC2L (J4)
FC2R (J4)
FC3L (J4)
FC3R (J4)
FDC1 (C1)
FDC2 (C2)
FDC3 (E1)
FFC1 (J3)
FIC1 (J3)
FIC2 (F4)
FIC3 (C6)
FIC4 (E5)
FJ1 (E2)
FJ2 (E1)
FJC1 (E4)
FJC2 (E4)
FJC3 (D4)
FJC4L (B5)
FR1L (J4)
FR1R (J4)
FR2L (J4)
FR2R (J4)
FR4L (I4)
FR4R (I3)
FR4R (B4)
FSC1 (H4)
FSC2 (G5)
GR1 (C5)
HIC1 (D5)
J10 (B6)
J11 (C3)
J12 (C2)
J13 (G4)
J14 (D1)
J16 (D6)
J17 (F4)
J18 (F5)
J19 (G6)
J20 (G6)
J21 (G6)
J22 (H6)
J23 (G5)
J24 (G4)
J25 (H4)
J26 (G3)
J27 (I4)
J28 (I5)
J29 (H5)
J30 (I5)
J301 (J7)
J31 (H6)
J32 (I4)
J33 (I6)
J34 (I6)
J36 (I6)
J37 (J6)
J38 (J5)
J39 (J5)
J40 (B1)
J41 (J3)
J42 (J4)
J43 (C2)
J44 (J6)
J45 (D5)
J46 (J5)
J47 (J6)
JC10L (D5)
JC10R (C5)
JC11 (A4)
JF1 (J6)
JF2 (J7)
J1C1 (D2)
JR11L (E4)
JR11R (E4)
JR1L (F4)
JR1R (E5)
JR2L (E4)
JR2R (E5)
JR6L (D4)
JR6R (D5)
JR7L (D4)
JR7R (D5)
JR8L (D4)
JR8R (D5)
JR9 (A5)
KR1 (B5)
KR2 (D6)
KR3 (C6)
KR4 (C5)
KR5 (D5)
KR6 (C5)
LC10L (D2)
LC10R (D2)
LC4 (D3)
LC5 (D3)
LC6 (D3)
MC1 (I6)
MC10 (H6)
MC14 (G6)
MC15 (G6)
MC16L (G6)
MC16R (G5)
MC2 (J6)
MC22 (F6)
MC24 (I6)
MC26 (G6)
MC29 (H5)
MC3 (J5)
MC30 (H5)
MC32 (I6)
MC33 (H5)
MC34 (H5)
MC35 (H5)
MC36 (I6)
MC42 (K5)
MC43 (G6)
MC44 (I6)
MC45 (J6)
MC47L (I4)
MC47R (J3)
MC48 (H6)
MC5 (H6)
MC8 (G7)
MFC1 (I6)
MR1 (I6)
MR10 (H6)
MR12 (J5)
MR13 (I5)
MR14 (I5)
MR15 (I5)
MR16 (I5)
MR18 (J6)
MR19 (I5)
MR2 (J6)
MR20 (H6)
MR23 (F7)
MR24 (G7)
MR26 (F6)
MR26L (F5)
MR26R (F6)
MR27 (F6)
MR28 (F6)
MR3 (J6)
MR30 (H5)
MR31 (I5)
MR32 (F6)
MR35 (H5)
MR36 (H5)
MR37 (H5)
MR39 (H5)
MR4 (I6)
MR40 (H5)
MR41 (H5)
MR42L (G6)
MR42R (G5)
MR44L (H4)
MR44R (H4)
MR45 (H7)
MR46 (H7)
MR47 (J6)
MR48 (J6)
MR49 (I6)
MR5 (H6)
MR50 (I5)
MR6 (H7)
MR8 (H6)
MR9 (H6)
MR91 (G6)
OPT1L (D1)
OPT1R (D0)
OPT2L (F4)
OPT2R (F4)
QIC1 (E5)
QR1L (E5)
QR1R (E5)
QR2L (E6)
QR2R (E5)
QR3L (E6)
QR3R (E5)
QR4L (E6)
QR4R (E5)
QR5L (E6)
RR10 (E1)
RR13 (G2)
RR15 (B7)
RR16 (F1)
RR17 (F1)
RR18 (G2)
RR22 (H2)
RR25 (J0)
RR26 (F1)
RR27 (J0)
RR33 (J1)
RR34 (J0)
RR38 (I0)
RR41 (E2)
RR42 (E2)
RR43 (F3)
SC2L (J4)
SC2R (J4)
SC6 (G4)
S1C1 (H4)
S1C3 (J4)
SJW1 (J5)
SJW2 (J6)
SJW3 (K6)
SR10 (H4)
SR11 (H4)
SR12 (H4)
SR13L (H4)
SR13R (H4)
SR14 (G4)
SR15 (G4)
SR17 (G4)
SR18 (G4)
SR19 (G4)
SR1L (J4)
SR1R (J4)
SR20 (G4)
SR21 (G4)
SR22 (G4)
SR23 (G4)
SR24 (G4)
SR25 (G4)
SR26 (G4)
SR27 (H4)
SR28 (G4)
SR29 (G4)
SR2L (J4)
SR2R (J4)
SR30L (G4)
SR30R (G4)
SR31L (H4)
SR31R (H4)
SR32 (G4)
SR33 (G4)
SR34 (G4)
SR35 (G4)
SR36 (G4)
SR39L (F4)
SR39R (F4)
SR3L (J4)
SR3R (J4)
SR40L (G4)
SR40R (F4)
SR43 (F4)
SR44L (F4)
SR4L (J4)
SR4R (J4)
SR5L (G4)
SR5R (G4)
SR6L (H4)
SR6R (H4)
SR7L (H4)
SR7R (H4)
SR8 (H4)
SR9 (G4)
XC1L (K3)
XC1R (K3)
XR1L (J4)
XR1R (K4)
XR2L (K3)
XR2R (K3)
ZC1 (B4)
ZC10 (I1)
ZC2 (C5)
ZC3 (D5)
ZC6 (E2)
ZC7 (E2)
ZC8 (H1)
ZC9 (H1)
ZR2 (C5)
ZR3 (D5)

10-2 Front



*** RESISTOR ***

UR100 (G3)
UR101 (H3)
UR104 (H2)
UR107 (D3)
UR108 (D3)
UR109 (D3)
UR110 (D3)
UR112 (G3)
UR113 (I3)
UR130 (C3)
UR131 (C3)
UR132 (D2)
UR17 (E0)
UR23 (C4)
UR53 (I3)
UR57 (C2)
UR60 (C2)
UR64 (E2)
UR66 (F2)
UR74 (B2)
UR76 (I1)

*** CONDENSER ***

UC12 (G2)
UC13 (E3)
UC14 (E3)
UC16 (G3)
UC18 (G2)
UC22 (D4)
UC25 (E3)
UC26 (E3)
UC27 (D4)
UC28 (F4)
UC29 (C4)
UC5 (B3)

*** DIODE ***

UD1 (C4)
UD10 (F1)
UD11 (F1)
UD12 (G2)
UD13 (I1)
UD14 (G4)
UD15 (F4)
UD16 (F4)
UD17 (F4)
UD18 (F4)
UD19 (F4)
UD2 (D4)
UD20 (F4)
UD21 (F4)
UD22 (B2)
UD3 (C2)
UD4 (D1)
UD5 (E1)
UD6 (E1)
UD7 (E1)
UD8 (E1)
UD9 (E1)

*** TR ***

UQ1 (D2)
UQ10 (H2)
UQ11 (I3)
UQ12 (H2)
UQ2 (E2)
UQ3 (F1)
UQ4 (C2)
UQ5 (D1)
UQ6 (G2)
UQ7 (F1)
UQ8 (B2)

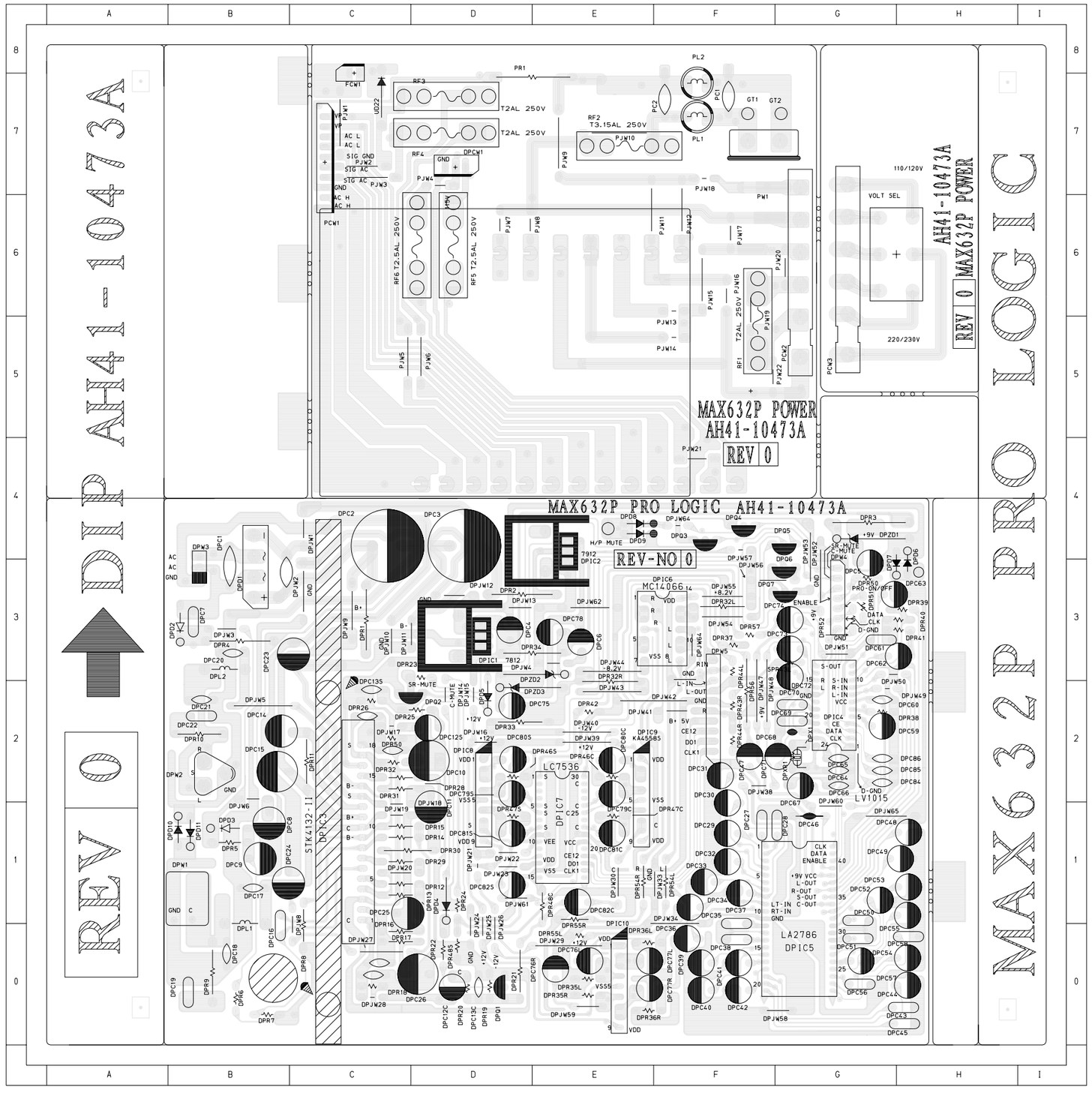
*** IC&WAFER ***

DCW1 (H1)
UC19 (G1)
UIC1 (F3)
USW1 (H2)
USW10 (C1)
USW11 (C1)
USW12 (B2)
USW13 (B2)
USW14 (B1)
USW15 (A2)
USW16 (E2)
USW17 (E1)
USW18 (E2)
USW19 (E1)
USW2 (H1)
USW20 (F1)
USW21 (F1)
USW22 (F1)
USW23 (F1)
USW24 (F1)
USW25 (F2)
USW26 (G1)
USW27 (G1)
USW28 (C4)
USW29 (D4)
USW3 (H1)
USW30 (E4)
USW31 (E4)
USW32 (F4)
USW33 (G4)
USW34 (I2)
USW35 (J5)
USW36 (J5)
USW37 (J5)
USW38 (J5)
USW39 (J1)
USW4 (D2)
USW40 (J1)
USW41 (J2)
USW42 (J3)
USW43 (J3)
USW44 (J4)
USW45 (F0)
USW46 (F0)
USW47 (F0)
USW48 (F0)
USW49 (G0)
USW5 (D1)
USW6 (E1)
USW7 (E1)
USW8 (D1)
USW9 (D1)

*** CHIP ***

JW1 (C2)
JW10 (I4)
JW15 (D2)
JW16 (F1)
JW17 (H1)
JW18 (J1)
JW2 (D2)
JW3 (D2)
JW4 (F1)
JW5 (D4)
JW6 (F2)
JW7 (H1)
JW8 (G2)
JW9 (H4)
UC1 (B4)
UC10 (G3)
UC17 (G1)
UC2 (B4)
UC21 (I2)
UC23 (E4)
UC3 (B4)
UC4 (B4)
UC6 (G2)
UC7 (H3)
UC8 (H3)
UC9 (G3)
UIC1 (F3)
UR1 (J4)
UR10 (J4)
UR103 (H2)
UR105 (G2)
UR106 (H1)
UR11 (J1)
UR111 (G4)
UR114 (F4)
UR115 (F4)
UR12 (J4)
UR121 (H3)
UR124 (B3)
UR125 (B3)
UR126 (B3)
UR127 (B2)
UR128 (B2)
UR129 (D3)
UR13 (B0)
UR134 (D4)
UR135 (E4)
UR136 (E4)
UR137 (F4)
UR138 (F4)
UR139 (F4)
UR14 (C0)
UR140 (F4)
UR141 (F4)
UR142 (F4)
UR143 (E4)
UR15 (D0)
UR16 (F0)
UR18 (F0)
UR19 (F0)
UR2 (J5)
UR20 (I2)
UR21 (B4)
UR22 (B4)
UR24 (H2)
UR25 (H1)
UR26 (D2)
UR27 (D1)
UR28 (D1)
UR29 (D1)
UR3 (J5)
UR30 (D1)
UR31 (D1)
UR32 (C1)
UR33 (C2)
UR34 (C2)
UR35 (C1)
UR36 (B1)
UR37 (D2)
UR38 (E2)
UR39 (F2)
UR4 (J5)
UR40 (F1)
UR41 (E1)
UR42 (E1)
UR43 (F1)
UR44 (F1)
UR45 (F2)
UR46 (G2)
UR47 (G1)
UR48 (C4)
UR49 (D4)
UR5 (J1)
UR50 (E4)
UR51 (F4)
UR52 (F4)
UR54 (H2)
UR55 (G3)
UR56 (G3)
UR58 (F2)
UR6 (J1)
UR61 (D2)
UR62 (D2)
UR63 (D2)
UR65 (E2)
UR67 (F2)
UR68 (E2)
UR69 (G2)
UR7 (J2)
UR70 (E2)
UR71 (D2)
UR72 (F2)
UR73 (C2)
UR75 (C1)
UR77 (G2)
UR78 (C4)
UR79 (C4)
UR8 (J3)
UR80 (C4)
UR81 (C4)
UR82 (D4)
UR83 (D4)
UR84 (D4)
UR85 (D4)
UR86 (D4)
UR87 (D4)
UR88 (D4)
UR89 (D4)
UR9 (J3)
UR90 (D4)
UR91 (D4)
UR92 (D4)
UR93 (E4)
UR94 (E4)
UR95 (F4)
UR96 (G4)
UR97 (G4)
UR98 (G4)
UR99 (D1)

10-3 Pro Logic & Power



*** RESISTOR ***

X (C0)
DPR1 (C3)
DPR10 (B2)
DPR11 (C2)
DPR12 (C1)
DPR13 (C1)
DPR14 (C1)
DPR15 (C1)
DPR16 (C0)
DPR18 (C0)
DPR19 (D0)
DPR2 (D3)
DPR20 (D0)
DPR21 (D0)
DPR22 (D0)
DPR23 (D3)
DPR24 (D1)
DPR25 (C2)
DPR26 (C2)
DPR28 (C2)
DPR29 (C1)
DPR3 (G4)
DPR30 (C1)
DPR31 (C2)
DPR32 (C2)
DPR32L (F3)
DPR32R (E2)
DPR33 (D2)
DPR34 (D3)
DPR35L (E0)
DPR35R (E0)
DPR36L (E0)
DPR36R (E0)
DPR37 (F3)
DPR38 (G2)
DPR39 (G3)
DPR4 (B3)
DPR40 (G3)
DPR41 (G3)
DPR42 (E2)
DPR43R (F2)
DPR44L (F2)
DPR44R (F2)
DPR46C (E2)
DPR46S (D2)
DPR47C (E1)
DPR47S (D1)
DPR48C (E1)
DPR48S (D0)
DPR5 (B1)
DPR50 (G3)
DPR50 (C2)
DPR51 (G3)
DPR52 (G3)
DPR54L (F1)
DPR54R (E1)
DPR55L (E0)
DPR55R (E1)
DPR56 (F2)
DPR57 (F3)
DPR6 (B0)
DPR7 (B0)
DPR8 (C0)
DPR9 (B0)
DPXR1 (G2)
PR1 (D7)
SPR43L (G3)

*** CONDENSER ***

DPC10 (D2)
DPC11 (D2)
DPC12C (D0)
DPC12S (D2)
DPC13C (D0)
DPC13S (C2)
DPC14 (C2)
DPC15 (B2)
DPC17 (B1)
DPC18 (B0)
DPC2 (C4)
DPC20 (B3)
DPC21 (B2)
DPC23 (C3)
DPC24 (B1)
DPC25 (C1)
DPC26 (D0)
DPC29 (F1)
DPC3 (D4)
DPC30 (F1)
DPC31 (F2)
DPC32 (F1)
DPC33 (F1)
DPC34 (F1)
DPC35 (F1)
DPC36 (F0)
DPC39 (F0)
DPC4 (D3)
DPC40 (F0)
DPC41 (F0)
DPC42 (F0)
DPC44 (H0)
DPC46 (G1)
DPC47 (F2)
DPC48 (H1)
DPC49 (G1)
DPC5 (G3)
DPC52 (G1)
DPC53 (H1)
DPC54 (G0)
DPC55 (H1)
DPC57 (H0)
DPC59 (G2)
DPC6 (E3)
DPC60 (G2)
DPC62 (G3)
DPC63 (G3)
DPC64 (G2)
DPC65 (G2)
DPC66 (G2)
DPC67 (G2)
DPC68 (G2)
DPC71 (G2)
DPC72 (G3)
DPC73 (G3)
DPC74 (G3)
DPC75 (D2)
DPC76L (E0)
DPC76R (E0)
DPC77L (E0)
DPC77R (E0)
DPC78 (E3)
DPC79C (E2)
DPC79S (D2)
DPC8 (B1)
DPC80C (E2)
DPC80S (D2)
DPC81C (E1)
DPC81S (D1)
DPC82C (E1)
DPC82S (D1)
DPC84 (G2)
DPC85 (G2)
DPC86 (G2)
DPC9 (B1)
PC1 (F7)
PC2 (F7)

*** DIODE ***

DPD10 (B1)
DPD11 (B1)
DPD2 (B3)
DPD3 (B1)
DPD4 (D1)
DPD5 (D2)
DPD6 (H4)
DPD7 (H3)
DPD8 (F4)
DPD9 (F4)
DPZD1 (G4)
DPZD2 (E3)
DPZD3 (D2)
UD22 (C8)

*** TR ***

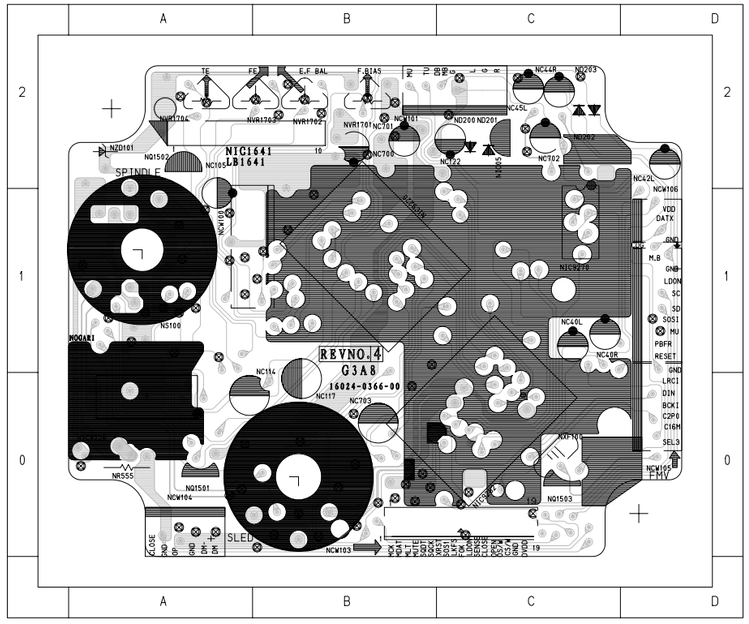
DPQ1 (D0)
DPQ2 (D2)
DPQ3 (F4)
DPQ4 (F4)
DPQ5 (G4)
DPQ6 (G3)
DPQ7 (G3)

*** IC&WAFER ***

DPCW1 (D7)
DPIC10 (E0)
DPIC4 (G2)
DPIC5 (F1)
DPIC6 (E3)
DPIC8 (D2)
DPIC9 (E2)
DPW3 (B3)
FCW1 (C8)
PCW1 (C7)
VOLT SEL (H6)

10-4 CD

10-4-1 Top View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

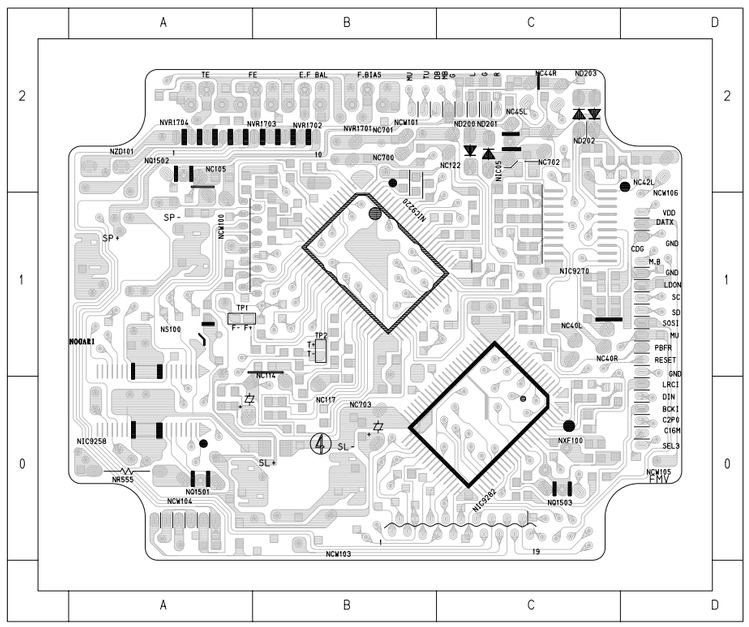
*** IC&WAFER ***

NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

10-4-2 Bottom View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

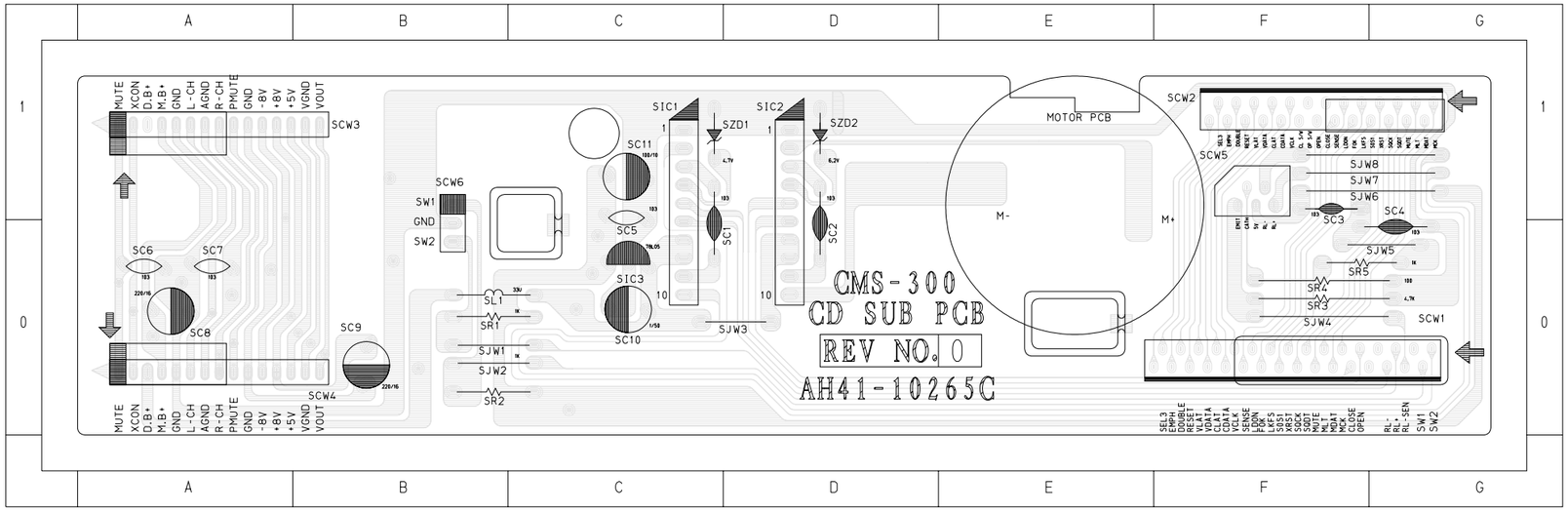
*** IC&WAFER ***

NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

10-4-3 SUB



*** RESISTOR ***

SR1 (B0)
SR2 (B0)
SR3 (F0)
SR4 (F0)
SR5 (F0)

*** CONDENSER ***

SC1 (C0)
SC10 (C0)
SC11 (C1)
SC2 (D0)
SC3 (F1)
SC4 (F0)
SC5 (C1)
SC6 (A0)
SC7 (A0)
SC8 (A0)
SC9 (B0)

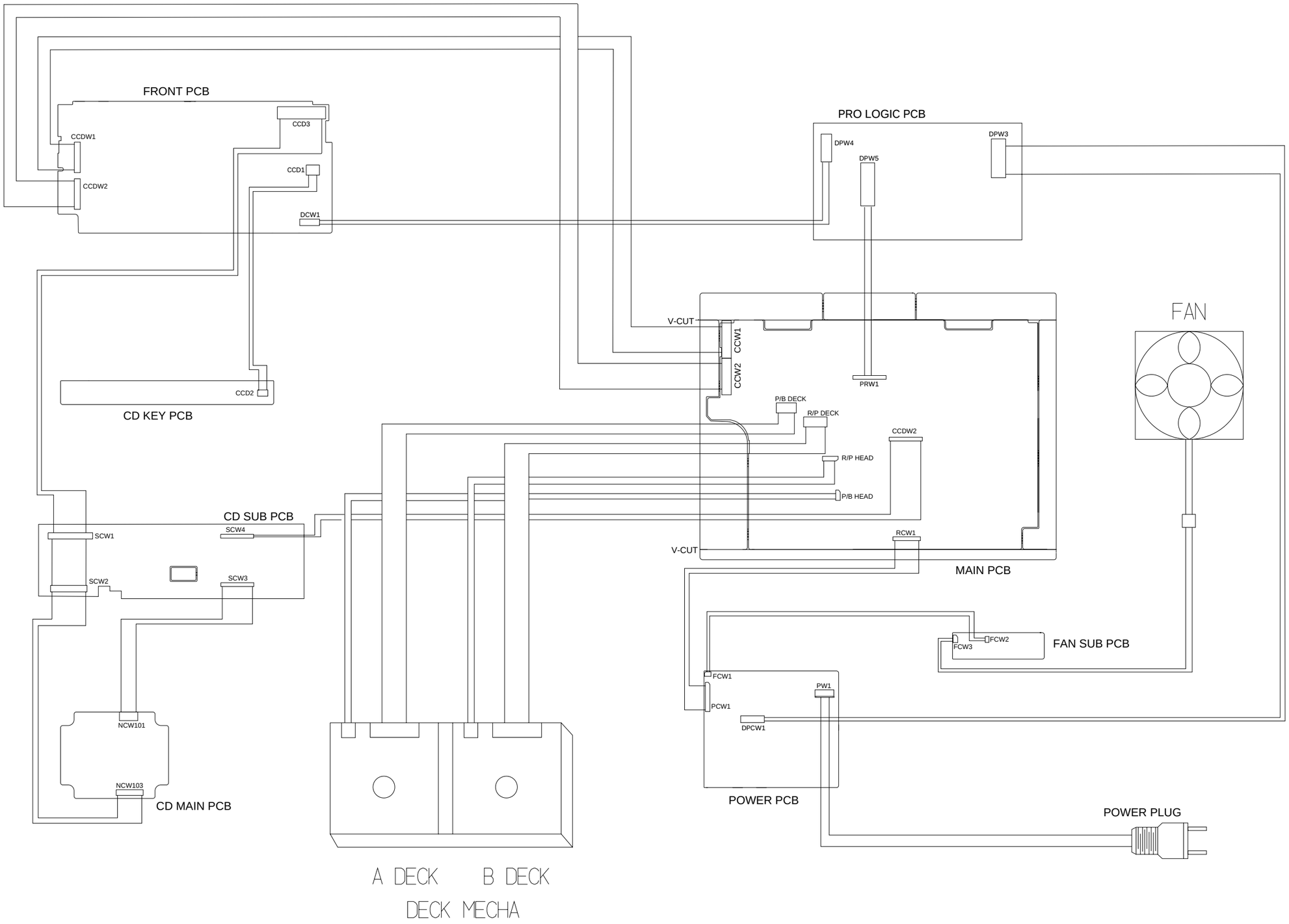
*** DIODE ***

SZD1 (C1)
SZD2 (D1)

*** TR ***

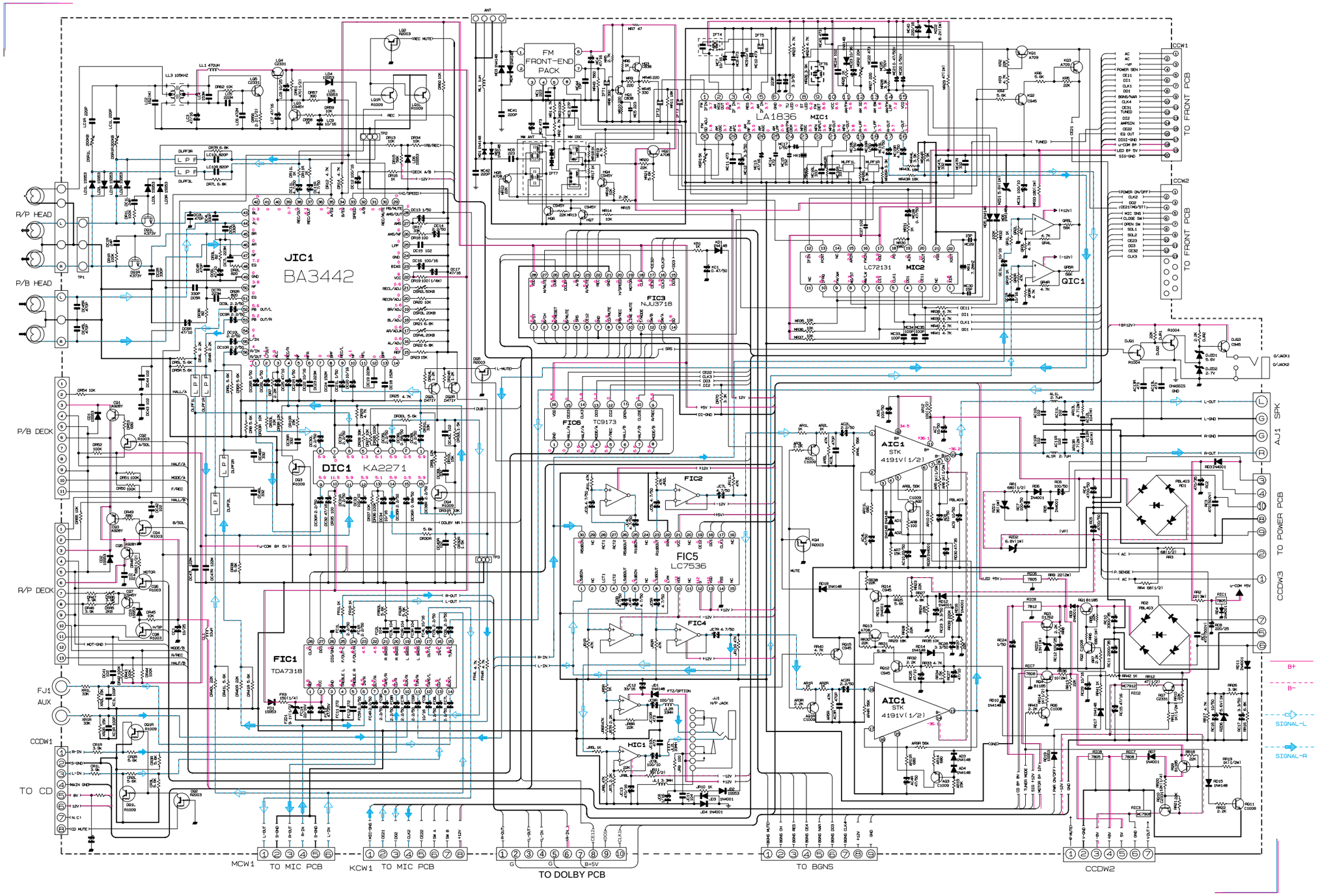
SIC3 (C0)

11. Wiring Diagram

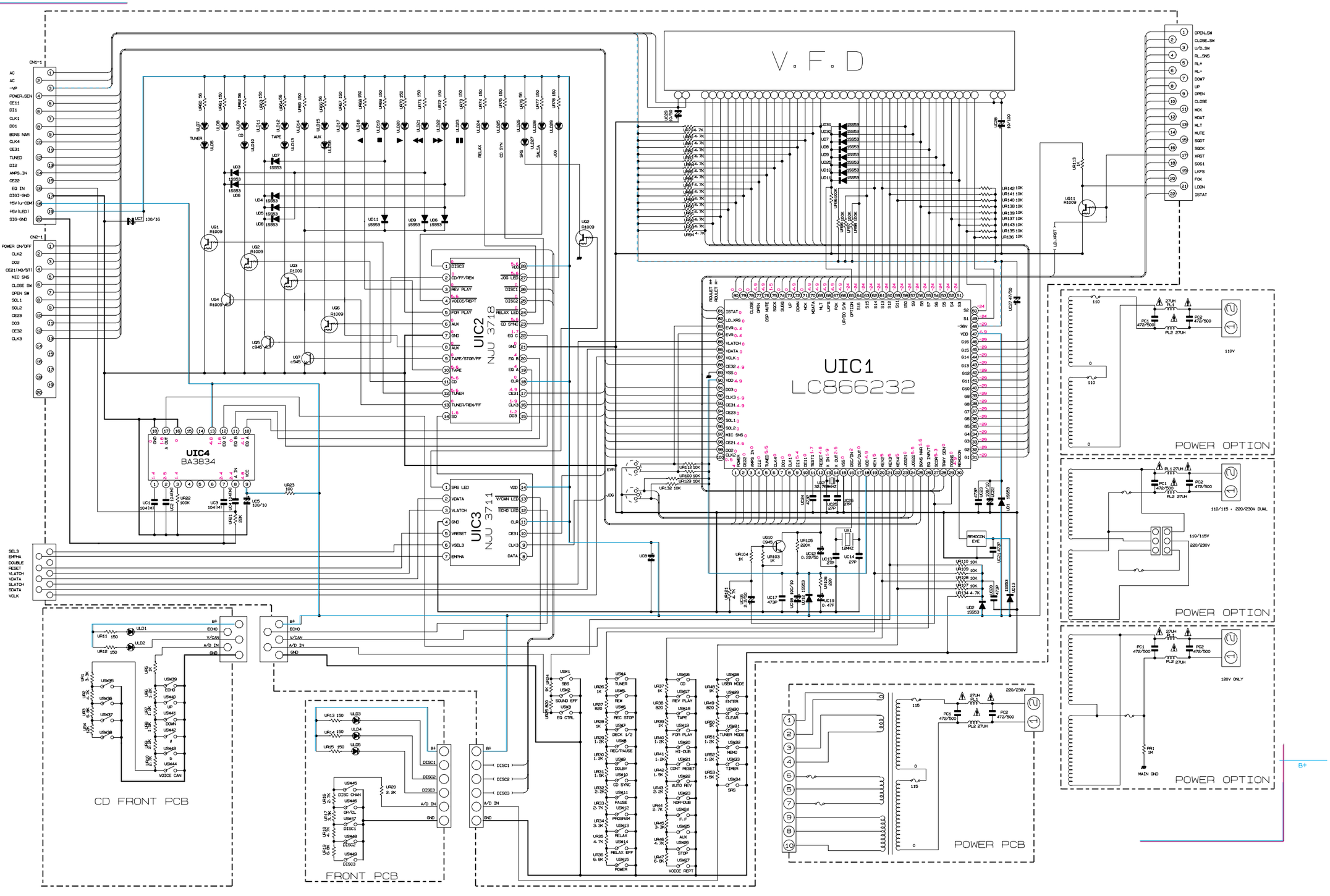


12. Schematic Diagrams

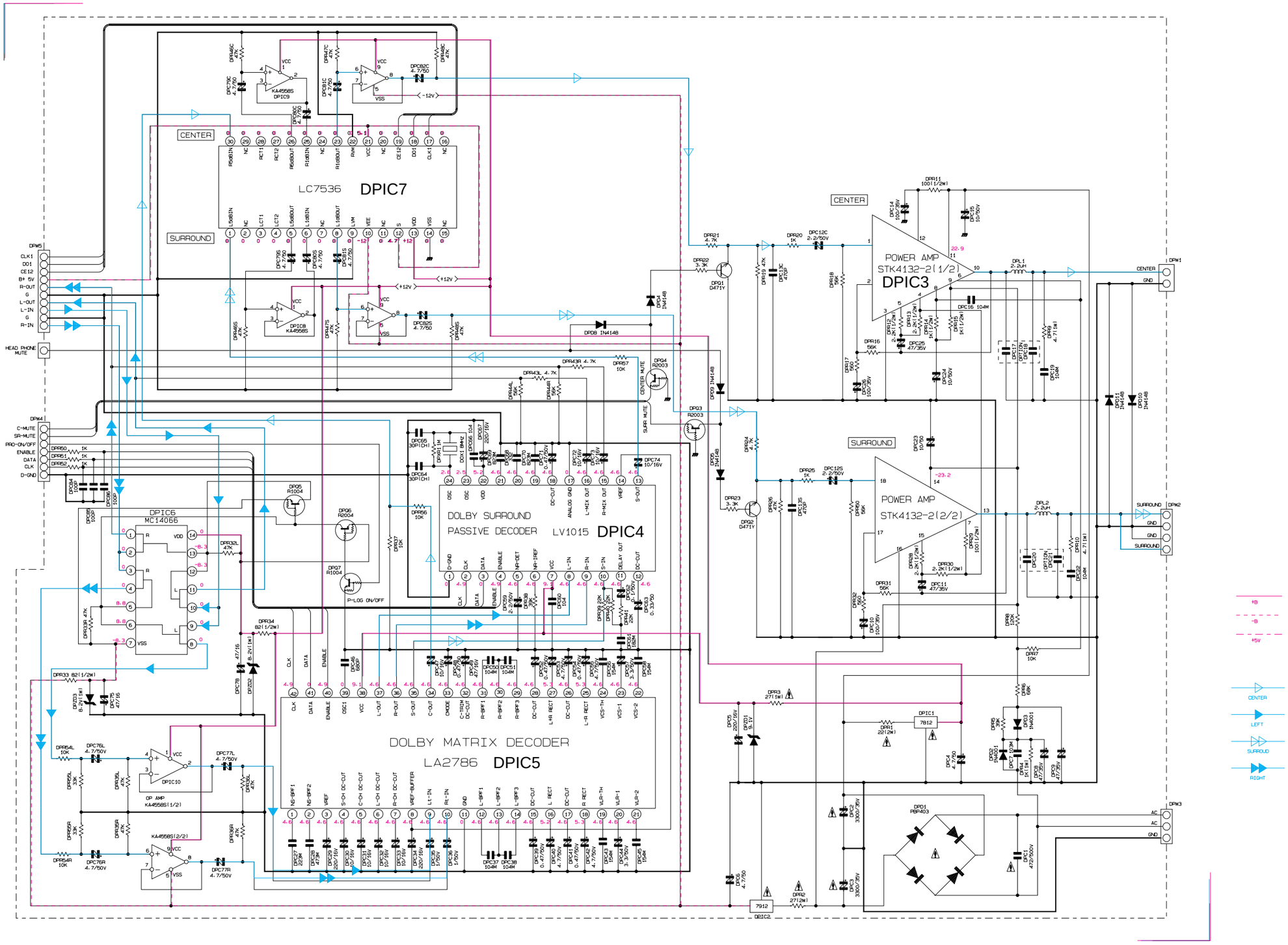
12-1 Main



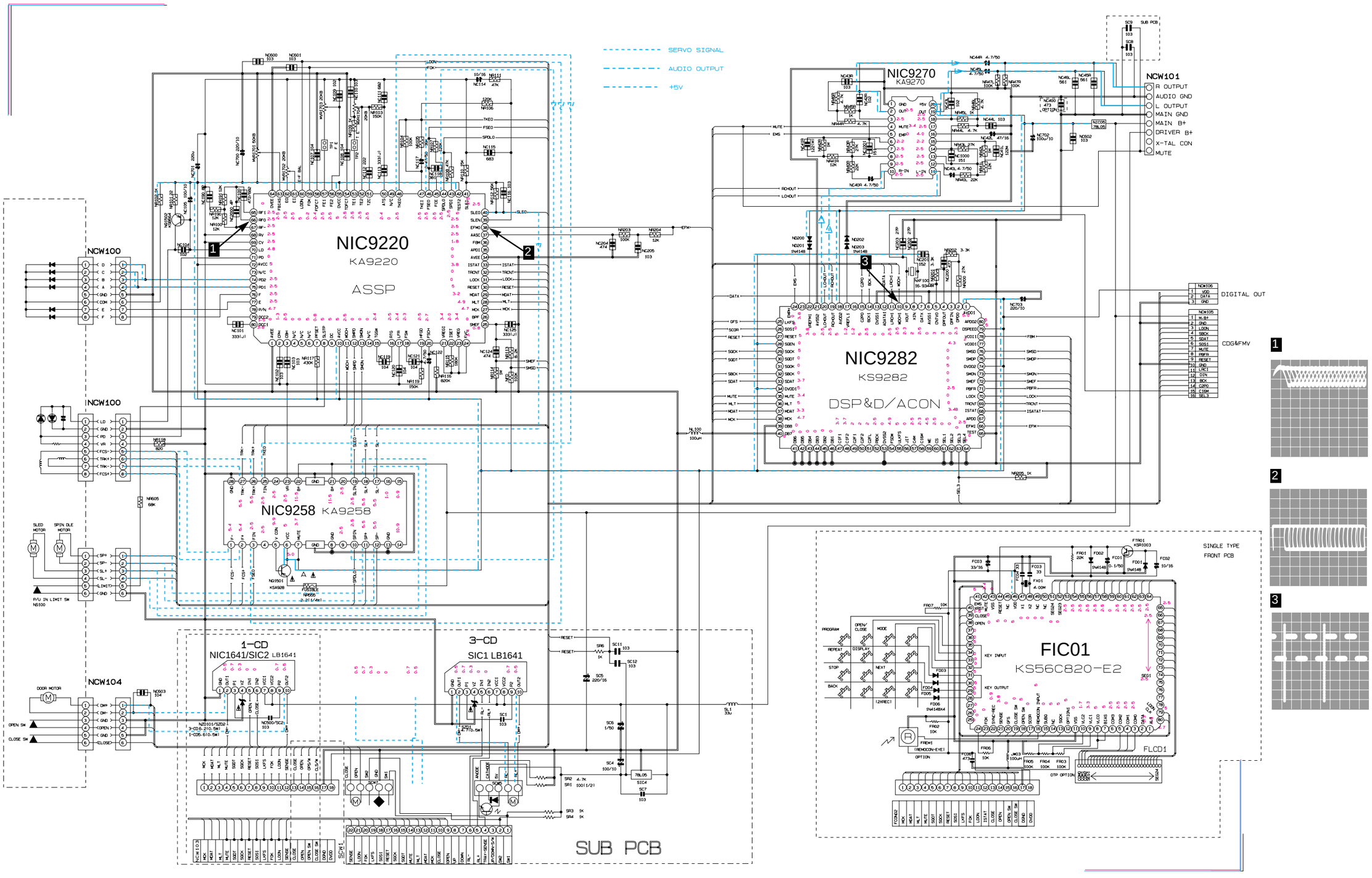
12-2 Front


V. F. D
UIC1
LC866232
UIC2
NJU 3711
UIC3
NJU 3711
UIC4
BA3834
CD FRONT PCB
FRONT PCB
POWER PCB
POWER OPTION
POWER OPTION
POWER OPTION
110/115 · 220/230V DUAL
110/115V
220/230V
120V ONLY
B+

12-3 Pro-Logic



12-4 CD


SERVO SIGNAL
AUDIO OUTPUT
+5V
NIC9220
KA9220
ASSP
NIC9282
KS9282
DSP&D/ACON
NIC9258 KA9258
NIC9270
KA9270
FIC01
KS56C820-E2
SUB PCB
1-CD
NIC1641/SIC2 LB1641
3-CD
SIC1 LB1641
NCW100
NCW101
NCW104
NCW105
NCW106
R OUTPUT
AUDIO GND
L OUTPUT
MAIN GND
MAIN B+
DRIVER B+
X-TAL CON
MUTE
DIGITAL OUT
CDG&FMV
SUB PCB
SINGLE TYPE
FRONT PCB
SLED MOTOR
SPIN DLE MOTOR
DOOR MOTOR
OPEN SW
CLOSE SW
PU IN LIMIT SW
NS100
1
2
3